

MR. HARRISON M. KASH
PHYSICAL SCI

MISSOURI SOUTHERN STATE COLLEGE



1993 - 1995 CATALOG

Missouri Southern State College

1993-1995 Catalog

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From the President,

The ideal public college fulfills its mission by educating citizens of all ages and socioeconomic backgrounds. Missouri Southern State College is proud of the role it plays in the intellectual and personal growth of its diverse student body. Our students discover here one of the finest values in higher education anywhere, with quality academic programs, small classes, excellent and accessible professors, and reasonable cost.



Our curriculum combines a liberal arts foundation with innovative professional directions to enable our students to become more concerned and capable citizens of the nation and the world.

A handwritten signature in cursive script that reads "Julio S. Leon".

Julio S. Leon, President

Dear Student,

If you're entering college for the first time, or even coming back after several years' absence, there is information in this catalog you'll need. It's not the most exciting bedtime reading, but it does pack a lot of information about our academic programs throughout your college experience.

This catalog and our helpful staff also can answer your more immediate questions:

1. I haven't decided on a major yet. What do I do?

Southern has trained counselors to help you discover what your best interests and attributes might be. Visit with Dr. Earle Doman, Hearnese Hall 112, 625-9595. (*Counseling Services, page 23*)

2. I'm concerned about the transition from high school to college. Is there someone to help?

The Counseling Services can help here too, as well as your College Orientation class. See Dr. Doman or Mrs. Lori LeBahn, Student Center 212, 625-9542. (*Orientation, page 18*)

3. Do you have an Honors Program?

Southern has an excellent and challenging Honors Program which includes a summer study option at Oxford University in England. Talk to Dr. Lanny Ackiss or Mrs. Patricia Kluthe, Webster Hall 137, 625-9686. (*Honors Program, page 29*)

4. Can I get some financial help with college costs?

A full range of financial aid programs are available to qualified students. Mr. Jim Gilbert and his staff can provide you with information and applications in Hearnese Hall 114, 625-9325. (*Financial Aid, page 18*)

5. What activities and organizations are available?

A host of special events, student activities and departmental organizations are available throughout the year. Drop by Val Carlisle's office, Student Center 101, 625-9320. (*Student Activities, page 24. See also individual departments.*)



Our Mission

Missouri Southern State College is a state-supported, comprehensive college offering programs leading to the bachelor's degree. Faithful to its original statutory charter, the College also offers continuing education courses and a number of two-year programs in technical and vocational areas for the benefit of the community.

The College's primary emphasis is the offering of a baccalaureate program that fosters the total education of each student. Central to that mission is a strong commitment to international education, to the liberal arts, to professional and preprofessional programs, and to the complementary relationship that must exist between liberal and professional education in order to prepare individuals for success in careers and lifelong learning.

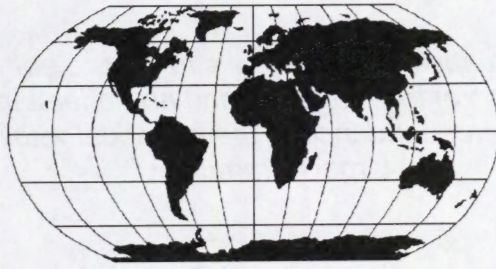
Inherent in its international approach to undergraduate education is the College's desire to prepare its students to understand world affairs, international issues and other cultures as seen through their history, geography, language, literature, philosophy, economics and politics. Knowledge and understanding of other cultures of the world also promote better understanding of our own valuable cultural diversity.

Missouri Southern's commitment to the liberal arts is reflected in a comprehensive program of general education requirements for all students to ensure that they have a breadth of educational experiences which will enable them to develop communication and critical thinking skills and to acquire and apply aesthetic, contemporary, civic, international, historical, mathematical, scientific and value-oriented perspectives.

The faculty and staff of Missouri Southern State College emphasize quality teaching and learning as the most important attributes of the College, complemented by scholarly and creative expression and dedicated community service. Community service involves responsiveness to the Southwest Missouri region as well as serving as the intellectual, creative and cultural center of the area.

In order to remain loyal to the trust given to the College by the people of the State of Missouri, Missouri Southern State College will:

- periodically review its mission in light of contemporary changes in society and in the needs of the people of Missouri;
- continually assess the effectiveness of its programs in order to ensure their quality and integrity.









International Education

On June 15, 1990 the Board of Regents of Missouri Southern State College approved a recommendation to pursue an international approach to undergraduate education.

The move to an international approach to our educational mission is prompted by the realization that the successful citizens of the 1990s and the 21st century will have to possess better knowledge and awareness of the people, languages and cultures of other countries of the world. The dramatic changes that are taking place in the economic and political systems of Russia and Eastern European countries as well as the challenge by Asian and European countries to American economic leadership make self-evident the need for a college education with a strong global perspective.

Missouri Southern State College is phasing in over several years, different programs and activities designed to internationalize our college. Among these are included:

-  Revising the curriculum to include a global perspective in every possible course.
-  Expanding the teaching of foreign languages to include, among others, Russian, Chinese, Arabic, Italian, Japanese, etc.; in addition to German, French and Spanish.
-  Increasing opportunities for Missouri Southern students to study abroad.
-  Staging conferences and lectures on world affairs, as well as cultural and artistic programs with international performers.
-  Creating new courses in international studies.
-  Increasing the participation of international students.

As these programs are implemented, our present and future students should take advantage of them and prepare for the global environment of the future.

Core Curriculum

"The task of education is to ensure both a celebration of the individual and an understanding of the interdependence of the individual within the larger community."

Bok

The Baccalaureate Degree

Scholars cite the following as the most common aims of a baccalaureate degree:

- Undergraduates should acquire an ample store of knowledge, both in depth, by concentrating in a particular field, and in breadth, by devoting attention to several different disciplines.
- They should gain an ability to communicate with precision and style, a basic competence in quantitative skills and a capacity to think clearly and critically.
- Students should also become acquainted with the important methods of inquiry and thought by which we acquire knowledge and understanding of nature, society and ourselves.
- They should develop an awareness of other cultures with their differing values, traditions and institutions.
- By having the chance to explore many opportunities, they should acquire lasting intellectual and cultural interests, gain in self-knowledge and ultimately be able to make sound choices about their future lives and careers.
- Through working and living with a wide variety of fellow students, they should achieve greater social maturity and acquire a tolerance of human diversity.

These common human experiences which transcend culture and time should be the components of an undergraduate degree. The faculty of Missouri Southern has translated the above into the following goals for its **Core Curriculum**:

Communicating: The student can send and receive information in a variety of modes (written, graphic, oral, numeric and symbolic), within a variety of settings (one-to-one, in small and large groups), and for a variety of purposes (for example, to inform, to understand, to persuade and to analyze).

Solving Problems/Critical Thinking: The student can analyze a variety of problems (for example, scientific, social, personal), select or create solutions to problems and implement solutions.

Clarifying Values: The student can identify personal values and the

personal values of other individuals, understand how personal values develop and analyze the implications of decisions made on the basis of personally held values.

Functioning Within Social Institutions: The student can identify those activities and institutions which constitute the social aspects of a culture (for example, governmental and economic systems, religion, marital and family institutions, employment and civic volunteer and recreational organizations), understand the impact that social institutions have on individuals in a culture; and the student's own and others' personal functioning within social institutions.

Understanding Science and Technology: The student can identify those activities and products which constitute the scientific/technological aspects of a culture (for example, transportation, housing, energy, processed food, clothing, health maintenance, entertainment and recreation, mood-alteration, national defense, communication and data processing), understand the impact of such activities and products on the individuals and the physical environment in a culture and analyze the uses of technological products in a culture and the student's personal use of such products.

Understanding the Arts: The student can identify those activities and products which constitute the artistic aspects of a culture (for example, graphics, art, music, theatre, literature, dance, sculpture, film and architecture); understand the impact art, in its various forms, has on individuals in a culture; and analyze the uses of works of art within a culture and the student's personal use of art.

The curriculum at Missouri Southern is designed in such a manner that these human experiences permeate each class taught at the institution. The graphic illustrates the cohesiveness of the student experience.

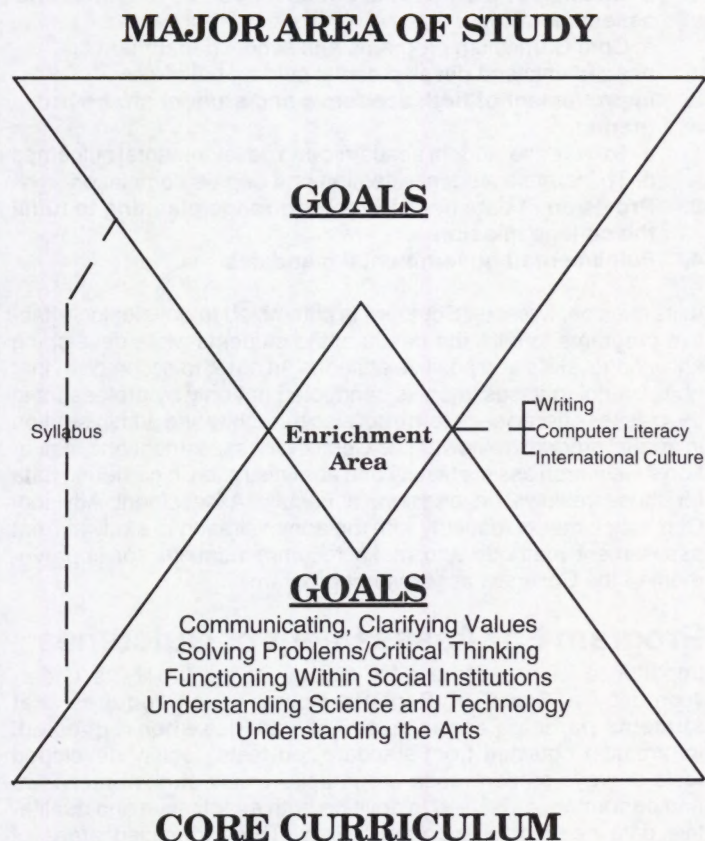
The **Core Curriculum** is the base of the graphic. Selected courses are designed to emphasize one or more of the goals described above. All baccalaureate degree candidates are required to gain minimum competency in these experiences. (See Core Curriculum, page.)

A **Major** or an extended study unit is required of all students. The curriculum is designed to allow limited experimentation in selecting that major. However, if a student wishes to graduate within four years, a major should be selected by the end of the third semester. (See specific majors listed within the narration of the four schools.)

The **Enrichment Area** insures a cohesive, integrated program of study from the freshman to the senior year. The **course syllabus** requires the attention of the Core Curriculum goals in each course taught on campus. The **Writing Program** is designed to insure acceptable composition permeates the total course of study. The **Computer Literacy** requirement rests within the discipline. Students must perform this competency within their major.

International Culture permeates the curriculum. The citizens of the 21st century cannot hope to prosper without a thorough knowledge of the cultures of the world. The thrust of our **American Culture** component is to insure the preservation of our value system, our democratic ideals and our way of life. The six required courses in the Core Curriculum are testimony to this strong belief. The curriculum is designed to insure competency with this area.

The graphic illustrates a cohesive, integrated curriculum of undergraduate education.



"To furnish the means of acquiring knowledge is the greatest benefit that can be conferred upon mankind. It prolongs life itself and enlarges the sphere of existence."

John Quincy Adams

Assessment of Outcomes

Goals of Assessment of Outcomes

Assessment is an on-going, cyclical effort of identifying goals, developing programs to achieve those goals, evaluating the effectiveness of the programs, analyzing the results, redefining the goals and improving the programs. That cycle is a basic responsibility of all faculty and administrators. Stated goals of outcomes assessment at Missouri Southern are:

1. **Evaluation of institutional effectiveness by research and assessment of:**
 - a. Core Curriculum programs and school department
 - b. Academic and developmental student outcomes
2. **Improvement of both academic and student affairs programs:**
 - a. To increase student academic and developmental outcomes
 - b. To increase student retention and degree completion
3. **Provision of data needed for long-range planning to fulfill the college mission**
4. **Fulfillment of governmental mandates**

In its mission, Missouri Southern is committed to developing effective programs to fulfill the needs of the students while developing knowledge, skills and positive attitudes. In order to accomplish that goal, on-going assessment is conducted not only by professors in the classes offered each term, but also by faculty and administration in annual program reviews. The Center for Assessment and Institutional Research assists faculty and administration in gathering data for those reviews. In addition, a Faculty Assessment Advisory Committee meets regularly with the administration to study current assessment methods and make recommendations for improvement of the College's assessment program.

Program For Assessment of Outcomes

Importance of assessment for college accountability is underscored by a **Board of Regents Policy which requires that students participate in assessment activities when requested.** Information obtained from standardized tests, faculty developed tests, surveys, student research, portfolio review, student interviews and performances is used to develop both quantitative and qualitative data needed for program review. Three identified areas of student outcomes are assessed each year: Core Curriculum, departmental majors and student development. In addition, follow-up studies of alumni and employers are conducted periodically.

Core Curriculum: Basic to any degree obtained at the College is the Core Curriculum. A Faculty Core Curriculum Oversight Committee is charged with reviewing the Core Curriculum requirements, reviewing student outcomes in this area and making recommendations for program changes if needed.

Data for study is gathered each year by administering a standardized test and needed surveys to incoming freshmen and exiting seniors. The ACT COMP (American College Testing College Outcome Measures Program) is a standardized test used to measure the impact of a Core Curriculum on students as they progress through a degree program. The test is designed to assess skills developed in Missouri Southern's Core Curriculum. Students are called upon to analyze, synthesize, apply and evaluate information, rather than just to recall or recognize content.

Departmental Majors: The faculty and administration of each department are responsible for evaluating the effectiveness of their programs. All departments have developed outcomes assessment programs for graduating seniors. Information gathered from quantitative and qualitative assessment is used by the department to review programs and make recommendations for curricular changes if needed. A variety of assessment methods are used by the various departments.

Departments which offer degrees that lead to state or national certifications use the required standardized tests for entrance and certification as their quantitative measures. These departments include accounting, dental hygiene, education, medical technology and nursing. Departments which use standardized major field tests that are offered by the Educational Testing Service or by their particular professional organization include biology, business administration, chemistry, English, environmental health, history, management technology, mathematics, physics, political science and sociology.

In major areas where standardized tests are currently unavailable, departmentally developed assessment plans have been implemented. The plans utilize one or more of the following methods: faculty developed exams, portfolio review, student interviews, external examiners, capstone projects and simulations, among others. The art, communications, computer information science, criminal justice administration, music, psychology, Spanish and theatre departments have developed such plans.

Student Development: The impact of a college is not limited to the classroom. While Core Curriculum and departmental major assessment is focused on knowledge and skill outcomes, student development assessment focuses on social and personal growth of students both in the classroom and on campus outside of the classroom. Surveys and opinionnaires are the primary methods of gathering data to assess student development. Data are collected from entering students, currently enrolled and graduating students each year to assess current attitudes and opinions. Research of lasting college impact is conducted with periodic surveys of alumni, employers and members of the local community.

Results of Assessment of Outcomes

Analysis Phase

As our Assessment program matures, we have an ongoing commitment to use the data collected from tests, surveys, etc. to analyze trends and link results to be used in the planning process. Teams of students, faculty, administrators and staff will study this data as it relates to both our service areas as well as departmental and core curricula.

Core Curriculum

In the Spring Semester, 1992, Missouri Southern administered the ACT COMP to nearly 500 senior students. Many of them had taken the same exam as freshmen, and thus were participants in a longitudinal study. They achieved a mean score of 187.2, which means that Southern's seniors scored better on average than 55% of the many thousands of similar students nationwide who also participated in this longitudinal study. Some of the institutions that also participated include Hardin-Simmons University, Illinois Wesleyan University, Northeast Missouri State University, Ohio University, University of Tennessee, and William Jewell College.

Departmental

Long-range studies are now being conducted in the departmental majors. The data collected thus far indicates that average scores achieved by Missouri Southern students are repeatedly at or above national averages. In addition, surveys conducted to assess the impact of the college on student development and on the community yield very positive results.

Improvement of programs to increase student outcomes is first and foremost the driving force behind the assessment program.

National Teachers Examination

Graduates of MSSC's teacher education program have scored above the National average consistently through the years since 1969. The table gives the four most recent years' data.

Professional Knowledge Test

	MSSC		National	
	Score	Percentile	Score	Percentile
Spring '89	668	64	658	48
Spring '90	667	70	657	45
Spring '91	665	65	659	45
Spring '92	664	59	659	42

Non Scholae Sed Vitae Discimus “Education not for a living, but for life.”

The faculty of Missouri Southern believes all educated persons should be familiar with the knowledge base on which our society is built. We know that over the course of a lifetime most people in America will change occupations and careers several times. While technical capability and competency in the major area are essential, especially for entry level employment, advancement to higher levels always requires going beyond technical capabilities and current technology. We must be concerned with much more than preparation for the first job after graduation. That is why Missouri Southern is concerned with total education.

As an educated person, you should

- * communicate well in both written and spoken forms;
- * understand quantitative ideas;
- * work well with both groups and individuals;
- * analyze situations and ideas critically and objectively;
- * know the historical, political and cultural heritage of your nation;
- * understand something of the cultures of other societies;
- * be open to new ideas and perspectives beyond what you have known in the past.

All these attributes are of equal importance to you, regardless of career choice or technical skill. They will serve you well throughout your lifetime. Acquiring those attributes is what we mean by the “total education of the person.”

Here are some of the ways we serve your total educational needs:

Teaching Emphasis

Missouri Southern is an undergraduate college. Therefore, the faculty has one primary responsibility — to help you earn your bachelor’s (or baccalaureate) degree. Here you will not be taught by some other student. From your first day, you will be taught by experienced faculty, many of whom have the highest degree available in their field.

Core Curriculum

The faculty of Missouri Southern has designed a series of courses that all students earning a bachelor’s degree must successfully complete. This Core Curriculum totals about 60 semester hours of credit, or almost half of the total of 128 semester hours required for the bachelor’s degree. It provides a broad range of subjects for a solid foundation of liberal arts education to help accomplish that “total education.” It gives you the opportunity for an experience which is usually associated with exclusive private liberal arts colleges. (On page 35 you will find a complete description of the CORE.)

Major Area of Study

Missouri Southern continues to offer the highest quality programs possible in the Schools of Arts and Sciences, Business Administration, Education and Psychology, and Technology. Many of our programs are truly outstanding, and as an institution which places teaching first, students receive the full time and attention of the faculty.

International Mission

The world is changing rapidly and dramatically. The future will belong to those who have an understanding and appreciation for the world beyond the boundaries of our country. That is why Missouri Southern has chosen to emphasize the global aspects of our entire curriculum, and to add the international dimension to all of our courses wherever possible.

Assessment of Outcomes

Missouri Southern continually assesses the effectiveness of its programs, including the Core Curriculum and all major study areas. The assessment information helps us revise and improve our programs. In this way, we ensure our curriculum is dynamic and up to date and not a static monument to past practice.

Student Services

A great deal of college education goes on outside the classroom. An array of extracurricular activities are offered to meet almost every academic and social interest. In addition, a variety of services are available to meet other educational and personal needs.

Non-traditional Students

Missouri Southern sees its sizable enrollment of non-traditional students (those over 25 years old) as a great advantage. Rarely do we find “real world” situations in which people interact exclusively with others of their own age. On our campus, students come to see each other as friends and allies, and learn to develop healthy relationships with a variety of people.

Special Programs

Your opportunity for total education is enriched through a variety of special programs including study abroad, the Honors Program, study at Oxford University in England, and the University of Salamanca in Spain, internships and independent study opportunities and special cultural events such as the Warsaw Philharmonic in 1990 and the biennial Missouri Southern International Piano Competition.

More complete information on all of these areas is found in this catalog. And, of course, our faculty and staff are always willing to help you in any way to make the most of your college education. Don’t hesitate to ask. We’re here for you!

Fee Policies

Schedule of Fees

Incidental Fees

Fall & Spring 93-94	Missouri Resident	Non-Resident
1 thru 14 hours	\$60.50 per hour	\$121.00 per hour
15 and above	\$44.00 per each additional hour	\$ 44.00 per each additional hour
Summer Session 94	\$60.50 per hour	\$121.00 per hour

Other Fees

Application for Admission	\$ 10
Applied Music	\$ 65 per cr. hr.
Art Materials (Ceramic, sculpture, jewelry, selected)	\$ 10
Change of Class Schedule (add/drop fee)	\$ 5
Commencement	\$ 20 - 30
Equipment Use (full-time students)	\$ 20 per sem.
(part-time students)	\$ 10 per sem.
Laboratory Breakage and Materials	cost
Late Registration	\$ 10
National Teachers Examination (required for BSE major)	\$125
Parking (all students, each semester)	\$ 3 per sem.
Radiologic Technology Special Fees	
First term	\$ 100
All other terms, each	\$ 40
Senior Music Recital Fee	\$ 50
Student Activity (full-time students)	\$ 20 per sem.
(part-time students)	\$ 10 per sem.
Student ID (one time)	\$ 2
(replacement card)	\$ 5
Textbook Rental and Service Charge (\$2 per hour refundable)	\$ 5 per cr. hr.
Transcript (first 2 without charge)	\$ 1
Residence Hall Cost (per semester)	\$1298
Refundable Security Deposit	\$ 75

Other incidental fees for supplemental class materials, testing or other course-related costs may be assessed as required.

The College Reserves the right to change fees without notice.

Payment of Fees

1. Tuition and Incidental Fees

For all students who have pre-registered, at least 50% of the semester charges must be paid two weeks prior to the first day of classes for that semester. The remaining balance on account will subsequently be due before the end of the third week of the semester. Failure to remit the first 50% installment according to these payment terms will result in an immediate drop from all pre-registered classes before regular registration.

For students who enroll during regular registration, payment of 100% of the fees charged will be due and payable on the day of registration. Failure to remit the balance due will result in an immediate drop from the student's class schedule.

Statements of account will be mailed to all pre-registered students prior to the initial payment deadline. Final statements will be mailed at the end of the first week of the semester.

It is extremely important to realize that a financial obligation is incurred at the time of enrollment. Services are rendered as of the first day of class so unless a student officially withdraws prior to that day, fees will be assessed in full. No reduction in charges according to the College refund policy will be credited to the student's account until an official withdrawal is completed. Failure to pay fees in accordance with the stated payment plan will not necessarily relieve the financial obligation incurred if the student is dropped for non-payment.

Students expecting their fees to be paid through financial aid sources must have all documentation filed with the Financial Aid Office by August 1st for the Fall term, and by January 1st for the Spring term in order to receive consideration for payment deferment.

Appeals concerning special problems pertaining to fees should be directed in writing to the Senior Vice President in Hearnes Hall, Room 200.

2. Residence Hall fees may be paid in full by the first day of the semester or in three installments as indicated below:

Fall Semester, 1993	Spring Semester, 1994
August 9 \$649	January 3 \$649
September 10 \$649	February 4 \$649

Students will not be permitted to move into the Residence Halls without remitting payment as indicated above or receiving a payment deferment from the Financial Aid Department.

Fee Information

Application for Admission A non-refundable fee is charged for processing applications for admission. The payment of this fee should be mailed with the application.

Applied Music For one 30-minute lesson per week in applied music, the usual fee is \$65 per credit hour.

Art Materials This fee provides for materials such as clay, glazes, waxes, solder and other similar items necessary for the course projects. Other materials are required to be purchased by students such as paper, brushes, watercolors or oils.

Change of Class Schedule Students are charged \$5 for each class change made after classes begin (refer to College Calendar).

Commencement Candidates for the associate or baccalaureate degrees are charged a commencement fee. This covers the cost of the diploma, cap and gown and other commencement activities. The fee is subject to refund only when the candidate fails to qualify for graduation.

12 / Fee Policies

Evening Session Students enrolled in evening classes for regular college credit courses, applicable toward an associate or baccalaureate degree, are subject to the same fees, rules and regulations of the day session. Special fees are announced in the Evening Session Bulletin for classes not applicable to an associate or baccalaureate degree.

Laboratory Breakage and Materials There are no charges for the use of equipment in laboratories. The student will be expected to pay for excessive breakage or loss of equipment due to negligence on the part of the student. A fair actual value of the loss will be determined by school officials. Students will pay for materials used in individual projects.

Late Registration A late registration fee is charged students who register after classwork begins. This fee is not refundable.

Miscellaneous Fees Occasionally certain additional fees may be assessed for classroom materials such as computer disks, computer manuals, training equipment or other items utilized in class instruction.

Student Activity Fee This charge is to support activities of the Student Senate, the Campus Activities Board and the Crossroads yearbook. The College photo identification card will allow admittance to most sports, theatre and music events of the College, and will allow the student to check out books from the College Library.

Equipment Fee This fee enables the College to purchase the most technologically current equipment for instructional use in the classroom and laboratories. All equipment acquired through these fees will directly benefit the student in their college course work.

Student ID Fee This one time fee will enable the student to acquire a College photo identification card. This card is necessary not only for identification purposes, but must also be presented when checking out library materials, eating meals under the Residence Hall meal plan or being admitted to campus events.

Summer Session Rules and regulations which govern admission to the first and second semester during the regular school year shall apply to the Summer Session.

Textbook Rental and Instructional Services The College operates a textbook rental system through the College Bookstore. While certain courses require the students to purchase books, most courses will only require the use of a rental textbook. Before rental books may be checked out, the student will be required to have paid at least 50% of the total fees for the semester. Students must return these textbooks on the last day of finals for any given semester. At that time, a fee refund will be credited to their account and carried over to the next term. Purchase Books will not be billed to the student's account but must be paid for at the time they are acquired at the Bookstore.

Transcripts Each student is entitled to two official transcripts without charge. Payment must accompany the written request for each additional transcript.

Refund Policy

(Except for Residence Hall Charges)

During the course of any semester, if a student finds it necessary to drop individual classes or fully withdraw from college the fee refund policy is as follows:

For Fall and Spring Semesters

Prior to the first day of class	100% refund
First through fifth weeks.	60% refund
After the fifth week.	0% refund

For Summer Semester

Prior to first day of class.	100% refund
First through third weeks.	60% refund
After the third week.	0% refund

Withdrawal from classes during the refund period means that the student will be responsible for 40% of the cost of tuition.

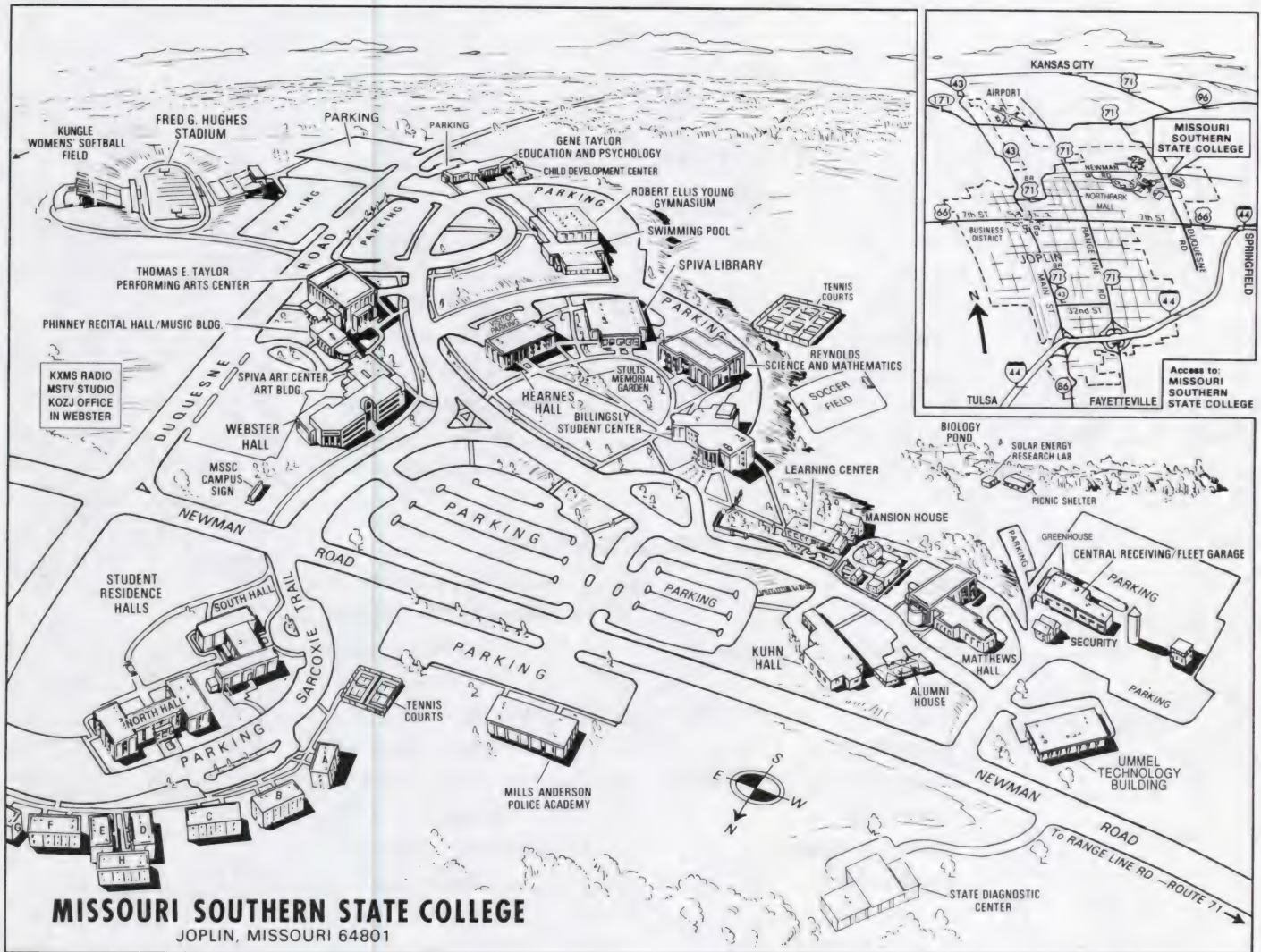
First time students at the College who receive Federal financial aid under Title IV and who totally withdraw from classes during their first academic year shall receive a pro-rata refund based on a Federally mandated schedule. Copies of the refund schedule are available in the Business Office.

To be eligible for a refund, the student must formally complete a drop or a withdrawal form and submit it to the Registrar's Office. Failure to attend classes will not constitute a withdrawal.

If the student withdraws after payment of any or all fees for the semester, any monies due to the student will be mailed after fee refunds have been applied. However, if the college costs have been paid partially or fully by financial aid (scholarships, grants, loans, other government assistance programs, etc.) the refund monies will be first applied to the financial aid program source. Once these awards have been fully refunded, any remaining balances will be forwarded to the student.

All refunds must be claimed during the term for which the refund applies. Students who feel that individual circumstances warrant exceptions to this policy may appeal in writing to the Senior Vice President. This appeal must be made during the term for which the refund applies.

For policies concerning fee refunds for Residence Hall charges, please refer to the Housing contract.



Building Directory

Alumni House

Alumni/Development Office
Missouri Southern Foundation

Anderson Police Academy

Firing Range
Law Enforcement
Regional Crime Laboratory

Art Building

Art Department
Spiva Art Center

Billingsly Student Center

Bookstore
Food Service
Meeting/Game Rooms
Career Planning/Placement
Public Information Office
Student Activities, Student Services
Ticket Office

Biology Pond

Picnic Pavilion
Solar Energy Laboratory

Campus Directory

Hearnes Hall

Administrative Offices
Admissions, Financial Aid
Counseling
English Department
Registrar

Hughes Stadium

Kuhn Hall

Kungle Softball Field

Maintenance Office

Central Receiving
Campus Security
Greenhouse

Matthews Hall

Business Administration
Computer Science
Matthews Hall Auditorium

Mission Hills Mansion Complex

Learning Center

Military Science Building

ROTC

Music Building

Phinney Recital Hall

Reynolds Hall

Biology, Mathematics,
Physical Sciences Departments

Soccer Field

Spiva Library

Student Residence Halls

Stults Memorial Garden

Taylor Hall

Child Development Center
Education Department
Psychology Department

Taylor Performing Arts Center

Theatre Department

Ummel Technology Building

Drafting/Design
Dental Hygiene Departments
Manufacturing Technology

Tennis Courts

Veterans' Memorial

Webster Hall

Communications Department
Continuing Education
Honors Program
KOZJ Office
KXMS Radio
MSTV Studio
Social Science Department
Webster Hall Auditorium

Young Gymnasium

Physical Education Department
Sports Information Office
Swimming Pool/Racquetball
Varsity Athletics

P - Parking

VP - Visitor Parking

Joe Becker Stadium, home of the Baseball Lions, is on 3rd and High Streets.

14 / Calendar

June 1993

S	M	T	W	T	F	S
		1	2	3	4	5
6	7	8	9	10	11	12
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27	28	29	30			

July 1993

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August 1993

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September 1993

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October 1993

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31						

November 1993

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Academic Calendar

1993 SUMMER SEMESTER

June 4. Day and Evening Registration
 June 7. Classes Begin
 June 10. Last Day for Class Changes & Late Registration
 June 24. Withdrawal After This Date No Refund of Fees
 July 5. 4th of July Holiday
 July 8. Last Day to Drop With a "W"
 July 28. Last Day of Classes
 July 29. Final Examinations

1993-1994 FALL SEMESTER

August 19. Faculty Study Conference
 August 19. Day and Evening Registration
 August 20. Day Registration
 August 23. Classes Begin
 August 27. Last Day for Class Changes & Late Registration
 September 6. Dismissal for Labor Day
 September 24. Withdrawal After This Date No Refund of Fees
 October 22. Last Day to Drop With a "W"
 November 24-26. Dismissal for Thanksgiving Holiday
 November 29. Classes Resume
 December 10. Last Day of Classes
 December 13-17. Final Examinations
 December 17. End of Semester

1993-1994 SPRING SEMESTER

January 13. Faculty Study Conference
 January 13. Day and Evening Registration
 January 14. Day Registration
 January 17. Classes Begin
 January 21. Last Day for Class Changes & Late Registration
 February 18. Withdrawal After This Date No Refund of Fees
 February 23. Senior Assessment Day
 March 14-18. Spring Break
 March 21. Last Day to Drop With a "W"
 May 11. Last Day of Classes
 May 12. Reading Day—No Finals
 May 13-19. Final Examinations
 May 19. End of Semester
 May 21. Commencement

December 1993

S	M	T	W	T	F	S
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January 1994

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February 1994

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March 1994

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April 1994

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May 1994

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June 1994

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July 1994

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August 1994

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September 1994

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October 1994

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November 1994

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Academic Calendar

1994 SUMMER SEMESTER

June 3.....Day and Evening Registration
 June 6.....Classes Begin
 June 9.....Last Day for Class Changes & Late Registration
 June 23.....Withdrawal After This Date No Refund of Fees
 July 4.....4th of July Holiday
 July 7.....Last Day to Drop With a "W"
 July 27.....Last Day of Classes
 July 28.....Final Examinations

1994-1995 FALL SEMESTER

August 18.....Faculty Study Conference
 August 18.....Day and Evening Registration
 August 19.....Day Registration
 August 22.....Classes Begin
 August 26.....Last Day for Class Changes & Late Registration
 September 5.....Dismissal for Labor Day
 September 23.....Withdrawal After This Date No Refund of Fees
 October 21.....Last Day to Drop With a "W"
 November 23-25.....Dismissal for Thanksgiving Holiday
 November 28.....Classes Resume
 December 9.....Last Day of Classes
 December 12-16.....Final Examinations
 December 16.....End of Semester

1994-1995 SPRING SEMESTER

January 12.....Faculty Study Conference
 January 12.....Day and Evening Registration
 January 13.....Day Registration
 January 16.....Classes Begin
 January 20.....Last Day for Class Changes & Late Registration
 February 17.....Withdrawal After This Date No Refund of Fees
 February 22.....Senior Assessment Day
 March 13-17.....Spring Break
 March 20.....Last Day to Drop With a "W"
 May 10.....Last Day of Classes
 May 11.....Reading Day—No Finals
 May 12-18.....Final Examinations
 May 18.....End of Semester
 May 20.....Commencement

December 1994

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January 1995

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February 1995

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March 1995

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April 1995

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May 1995

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Correspondence/Facilities

Missouri Southern State College

3950 E. Newman Road

Joplin, Missouri 64801-1595

(417) 625-9300

24 hr. answering service 782-MSSC

For admissions and financial aid information toll free 1-800-492-4811

(Toll-free in MO, AR, KS-316, and OK-918 only)

Admission of students	Director of Admissions	625-9378	Cafeteria	625-9546
Alumni affairs	Director of Alumni Affairs	625-9396	Child Development Center	625-9360
Business affairs			Continuing Education	625-9384
. Assistant Vice President of Business Affairs		625-9728	Counseling	625-9324
Catalog & bulletins	Director of Admissions	625-9378	Crime Laboratory	625-9382
Credit evaluations/transcripts	Registrar	625-9389	Dental Hygiene Clinic	625-9379
Evening session			Grammar Hotline	624-0171
. Vice President for Academic Affairs		625-9394	Honors Program	625-9686
Faculty appointments			KXMS-FM	625-9356
. Vice President for Academic Affairs		625-9394	Learning Center	625-9373
Financial aid	Office of Financial Aid	625-9325	Library	625-9386
Gifts & annuities	President	625-9500	Maintenance	625-9387
Housing	Director of Housing	625-9522	Missouri Southern Foundation	625-9396
Loans	Office of Financial Aid	625-9325	MSTV	625-9375
News/publications	Director of Public Information	625-9365	Purchasing	625-9388
Orientation	Director of Orientation	625-9542	Safety & Security	625-9391
Placement services	Director of Placement Services	625-9343	School of	
Student employment	Office of Financial Aid	625-9325	Arts & Science	625-9385
Student organizations			Business Administration	625-9319
. Coordinator of Student Activities		625-9320	Education & Psychology	625-9314
Summer session			Technology	625-9328
. Vice President for Academic Affairs		625-9394	Sports Information	625-9359
Testing	Director of Counseling	625-9324	Student Activities	625-9320
Veterans affairs	Veterans Counselor	625-9529	Swimming & Racquetball	625-9390
Athletics (men)		625-9317	Ticket Office	625-9366
Athletics (women)		625-9316	Vice President, Student Services	625-9392
Bookstore		625-9380		

Additional areas (for academic department numbers, see department information in each school)

Facilities

Missouri Southern moved to the present campus site in 1967. With few exceptions, all of our present facilities have been constructed since that date, and thus we have a modern and up-to-date physical plant.

Hearnes Hall houses central administration and the English department.

Spiva Library is a modern information resource center including an audio visual center.

The School of Education and Psychology is located in **Taylor Hall**.

The Mansion, landmark from the 1920s, provides facilities for the Learning Center.

The Anderson Police Academy is the location for the School of Technology, military science, the Crime Lab and the department of criminal justice administration.

Taylor Auditorium and **Spiva Art Center** are used by fine arts students and faculty.

Kuhn Hall houses the nursing department.

Reynolds Hall provides classroom, office and laboratory space for mathematics and sciences.

The Ummel Technology Building is used by CADD, CAMT and the dental hygiene programs.

Matthews Hall is the facility for the School of Business Administration and the department of computer science.

Billingsly Student Center provides facilities for administrative offices as well as student activities.

Webster Hall houses the communications and social science departments as well as studios for Missouri Southern Television and KXMS fm radio.

Young Gymnasium and **Hughes Stadium** are modern teaching and athletic facilities.

The **Alumni House** provides offices for the Southern Foundation and alumni operations.

Residence facilities include **South Hall, North Hall, Annex 1 and 2**, and Buildings **A, B, C, D, E, F, G and H**.

Additional facilities include maintenance and shop buildings.



Student Services

College Orientation

Financial Aid

Policies & Regulations

Counseling Services

Career Planning & Placement

Residence Halls

Student Health Services

Intercollegiate Athletics

Student Conduct

Student Identification Cards

Student Services

Vice President for Student Services

Glenn D. Dolence

Billingsly Student Center 211, 625-9531

Staff Allman, Beard, Binns, Blanford, Carlisle, Carnahan, Deem, Dobson, Doman, Foster, Frazier, Gilbert, Gipson, Humphrey, Karst, LeBahn, Loomer, Miller, Oakes, Pennington, Vermillion

Purpose and Objectives

Because all education does not take place in the classroom, the Student Services staff provides a wide variety of support services for students at Missouri Southern. The department includes the Student Services Central Office, Admissions, Financial Aid, Counseling Services, Career Planning and Placement, College Orientation, Residence Life, Student Activities, Student Health Services and Intercollegiate Athletics. (For admissions requirements and procedures, see page 31 under Academic Regulations.)

With the objective of helping students to fully develop and achieve their educational goals, professional staff members are trained to support students by:

1. providing a campus climate in student residence and campus affairs that is conducive to academic achievement;
2. providing services which will assist in the self-development of all students and promote the understanding of their own purposes for being in college;
3. providing, through student government, student organizations and other activities, both an opportunity to practice democratic living, with both rights and responsibilities, and a chance to learn to work effectively and cooperatively with others;
4. providing an opportunity for those individuals who are capable of profiting from higher education by providing financial assistance, when necessary, in the form of scholarships, grants, loans and employment;
5. helping each student develop a sense of individual responsibility and self-discipline;
6. interpreting college objectives, policies and rules to students and communicate student attitudes, opinions and activities to the faculty, administration and general public;
7. providing student health services that meet the emergency and temporary medical needs of all students;
8. providing an opportunity for students to gain information about the world of work and job opportunities; and
9. providing assistance and direction in matching student qualifications with job requirements.

personal issues. The program operates in small group settings with peer leaders to provide open discussion of all factors that contribute to a successful college career. The eight-week course is offered at the beginning of fall and spring semesters and includes the assignment of an academic adviser for each student. Members of the Student Services staff serve as academic advisers for students who have not declared an academic major. Special orientation courses are available for transfer and non-traditional students. The Director of College Orientation coordinates a nine-day summer orientation program as well as the fall and spring programs. The Orientation Office is located in the Central Student Services Office, 211 Billingsly Student Center.

Financial Aid

Hearnes Hall 114, 625-9325

Missouri Southern participates in a variety of aid programs to assist qualified students who would otherwise not be able to attend college. These funds – from private, institutional, state and federal sources – are coordinated to meet the individual student's need. There are programs based on various criteria such as financial need, performing ability and academic excellence. Each program has requirements for maintaining the award and students must meet satisfactory academic progress guidelines for continued assistance. Foreign students are required to present a financial statement certifying they have sufficient funds to pay for all educational expenses. Information in this catalog regarding financial aid is subject to change without notice. Missouri Southern reserves the right to adjust a student's financial aid package to reflect a true change in the student's financial situation. Financial aid awards are subject to changes in institutional policy and State and Federal regulations.



College Orientation

Billingsly Student Center 211, 625-9542

To assist all new students in the transition to college life, Southern has designed an orientation program to help them become acquainted with college personnel, services, policies, procedures and

Scholarships	Who Is Eligible	How Much	How to Apply
Honors Program	Students who score 28 or above on the ACT Placement Test or with a 3.5 GPA in high school course work	Full tuition and fees for ACT scores that fall within the 99th percentile	Send test scores to Director of Honors Program and request application
President's Scholarships*	First and second ranking students in each accredited high school in the College's service area	1993-94 \$1140.00	Upon recommendations of high school counselor; scholarship is validated when recipient enrolls as a freshman
Regents' Scholarships*	Awarded directly to high school graduates who score 25 composite score or higher on the ACT and have a 3.0 high school GPA	1993-94 \$760.00	Have ACT Placement Test scores sent to Counseling Office
Deans' Scholarships*	High school graduates who rank in the upper 20% of their graduating class and have a composite ACT of 21 or above. Can not be used in conjunction with the President's, Regents' or Honors Program Scholarships.	1993-94 \$580.00	Contact your high school counselor
Non-Resident Service Area Scholarships	Students graduated from a high school outside of Missouri, but within the college service area. ACT composite of 21 or above and meet admissions criteria.	Equal to the difference between resident and non-resident fees.	
Junior College Transfer Scholarships*	Junior college graduates with a 3.0 GPA and students who have completed 55 hours or more with a 3.0 GPA at a junior college.	1993-94 \$760.00	Complete a Junior College Transfer Application
Non-Resident Junior College Transfer Scholarships	Attended junior college outside of Missouri but within the college service area and successfully completed 55 hours and a 3.0 GPA at the above junior college.	Equal to the difference between resident and non-resident fees.	
Patron's Scholarships	Criteria established by individual donors	Awards range from \$50 to \$1500 as determined by individual donors	Applications available in Financial Aid Office; application deadline March 1
Performing Aid Awards	Students who have demonstrated success or high potential in forensics, journalism, music, mathematics, theatre, baseball, football, golf, softball, volleyball, basketball, soccer, tennis, etc.	Awards range from \$50 to full scholarship consisting of tuition, fees, room and board	Apply directly to the director or sponsor of particular activity
ROTC Scholarships	Outstanding students enrolled in military science	One-year, two-year and three-year scholarships for tuition, lab fees, on-campus educational fees and incidentals, plus up to \$1,000 tax-free subsistence allowance each school year	Applications available from the military science department

*Students receiving President's, Regents', Deans' and Junior College Transfer scholarships must enroll in and complete at least 12 hours each semester with a 2.5 GPA the first semester and a 3.0 GPA the following semesters.

20 / Financial Aid

Grants	Who Is Eligible	How Much	How To Apply
Federal Pell Grant	Federal Aid program based on financial need. All students should apply.	Grants range from \$200 to \$3700 depending on where the student lives and educational costs.	Complete an approved need analysis; MSSC prefers the electronic application, priority date February 15.
Missouri Student Grant	State funded program for Missouri residents; based on financial need.	Maximum grant not to exceed one-half the cost of tuition and fees.	Complete an approved need analysis. Deadline April 30.
Federal Supplemental Educational Opportunity Grants (SEOG)	Students with exceptional financial need.	Grants range from \$100 to \$4000 per academic year.	Complete an approved need analysis. MSSC prefers the electronic application, priority date February 15.
COPHE Teachers Scholarship	Graduating H.S. seniors	\$1000	COPHE Scholarship Application
Missouri Teacher Education Scholarship	Upper 15% of graduating class or score in the upper 15% on recognized exam.	\$2000 per year	Missouri Teacher Education Scholarship application available in the Financial Aid Office.
Robert C. Byrd's Honors Scholarship	Graduating H.S. seniors	\$1500	Byrd Scholarship Application
Missouri Higher Education Academic Scholarship	Graduating H.S. seniors	\$2000	Missouri Higher Education Academic Scholarship Application

Employment Programs	Who is Eligible	How Much	How to Apply
Federal Work Study Program	Federal Aid program based on financial need. All students should apply.	Minimum wage, weekly hours based on need.	Complete an approved need analysis. MSSC prefers the electronic application, priority date February 15.
Student Help Program	On-campus employment for students who are qualified to fill job openings.	Minimum wage, weekly hours depend on operational need.	Apply to Student Employment Office or to individual departments on campus.
Job Location & Development	All students unless other aid criteria conflicts.	Minimum wage and up.	Fill out MSSC Employment Application, make an appointment.

Loans	Who Is Eligible	How Much	How to Apply
Federal Perkins Loan	All students who demonstrate financial need and have completed appropriate documentation as required by Federal regulations.	Need to \$3000 per year, Aggregate total \$15,000	Complete an approved need analysis. MSSC prefers the electronic application; priority date February 15
Federal Stafford Loans - subsidized	All students who demonstrate financial need and have completed appropriate documentation as required by Federal regulations.	1 year up to \$2625 2 years up to \$3500 3 years up to \$5500 4 years up to \$5500 Aggregate total \$23,000	Application and special instructions available in Financial Aid Office. Complete an approved need analysis. MSSC prefers the electronic application; priority date February 15.
Federal Stafford Loans - unsubsidized	Same as subsidized Federal Stafford Loans.	Cost of education minus other aid equals eligibility.	
Federal SLS	Regular student must apply for Federal Aid programs.	\$4000 per year Freshman & Sophomore \$5000 per year Junior & Senior Aggregate \$23,000	Application and special instructions available in Financial Aid Office. Complete an approved need analysis. MSSC prefers the electronic application; priority date February 15.
Federal PLUS	Regular student must apply for Federal Aid programs.	Cost of education minus other aid equals eligibility.	

Other Assistance	Who is Eligible	How Much	How to Apply
Academic Management Service	All students are eligible for this monthly budget plan which allows payment of fees over a 10-month period and provides insurance coverage for the person making the payments.	Ranges from \$25 to full cost of tuition, fees, room and board; or the difference between total direct educational costs and other financial aid awarded.	Applications available in the Financial Aid Office
Veterans' Administration Benefits	Veterans eligibility is determined by when the veteran entered military service, length of duty and several other factors.	Amount varies depending on chapter and enrollment status.	Contact: Veterans' Administration Officer, Veterans' representative on campus or Veterans' Administration Regional Office
Bureau of Indian Affairs	Students who can prove they are at least one-fourth Indian blood.	Awards range from partial tuition to full tuition and fees.	Contact: Bureau of Indian Affairs, Higher Education Office, Federal Building Room 300, Muskogee, OK 74001
Vocational Rehabilitation		Awards range from \$25 to full tuition, fees, room and board.	Contact: Vocation Rehabilitation Office, 1609 East 20th, Joplin, MO 64801

All financial assistance is subject to change without notice to meet federal regulations and availability of funds.

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How to Apply for Financial Aid

1. All applicants must complete an approved need analysis application. MSSC prefers CSX'S AFSSA form. Application deadline is April 30; however, awards will be made until all funds are expended. This application will generate a Pell Grant, Missouri Grant and a financial aid report.

Students who have not submitted all necessary financial aid documentation by August 1 for the Fall term and January 1 for the Spring term will be expected to pay their fees in full by the deadlines set out in this catalog. Payment deferments will only be available to those students who meet with the application deadlines and have provided all required documentation for eligibility determination.

2. Processing applicants should bring or mail all copies of the Federal Pell Grant Student Aid Report to the Financial Aid Office as soon as they receive the document.
3. Applicants selected for verification must bring or mail a copy of their own and if under 24, their parent's 1040 Income Tax Form to the Financial Aid Office. These signed documents must be on file before any award will be processed.
4. Applicants must indicate on their Supplemental Data Sheet the type of assistance for which they wish to apply. In addition, applicants for Stafford, PLUS and SLS loans must complete a separate loan application.
5. Applicants for Patron Scholarships must complete a scholarship application and return it to the Financial Aid Office by March 1.
6. Transfer students must request a financial aid transcript for each college previously attended.
7. Applicant for performing awards should contact the director of the program in which they wish to participate.
8. Applicants for special programs should contact the Financial Aid Office for instructions.

Maximum Semesters of Aid Eligibility

Degree	Full-Time	3/4-Time	Half-Time
Bachelor	12	18	24
Associate	6	9	12
Certificate	3	5	6

Note: It is automatically assumed that students who do not indicate a degree program are pursuing a baccalaureate degree. All financial aid recipients must complete the appropriate number of hours depending on the categories in which they enroll and receive payment.

All financial aid recipients must complete the appropriate number of hours depending on the categories in which they enroll and receive payment.

Category Completed	Hours per Semester	Hours per year
Full-time	12 or more	21 hours per year
3/4-time	9 to 11	15 hours per year
Half-time	6 to 8	9 hours per year

Note: In calculating the minimum hours completed per year, the following will not be counted: incompletes, repetitions, non-credit remedial courses, audited courses and withdrawals. However, if withdrawal from a class results in a change in categories, the originally required payment hours must be completed. If the minimum required hours are not completed, the student will be placed on probation. Students who fail to complete the minimum required hours during the academic year (fall and spring) or whose grades are below the minimum, may make up their deficiencies in summer school.

Policies and Regulations

Academic Standards: The student's academic progress will be determined in May of each year. However, if minimum standards of hours or grade point average are not met in the fall semester, the student automatically will be placed on financial probation for the spring semester. If satisfactory progress is made during the fall, but not during the spring semester, the student will be allowed one semester on probation to make up all deficiencies. After the probationary semester, grades will be checked and the number of courses will be verified to see if a minimum standard has been completed. If satisfactory progress is not maintained, the student will be placed on financial suspension until the required GPA is reached or course work is completed.

All financial aid recipients must meet the appropriate GPA as published in the College Catalog, (page 40, Standards of Progress Toward Graduation). After the second year, federal regulations require the student to have a cumulative "C" average or 2.0 GPA or, in cases where a higher GPA is required for graduation, the student must meet that higher GPA. Students receiving financial aid must meet federal guidelines. If the GPA falls below the minimum standard of progress, the student will be placed on probation.

The maximum time in which a student is eligible to receive financial assistance is as follows:



All aid will terminate immediately under the following situations:

1. withdrawal from all classes;
2. failure to meet special requirements of academic progress imposed by the Financial Aid Committee; or
3. default on any federally funded student loan or over payment of any Title IV funds;
4. all "F" grades in a semester.

Appeal Procedures

Students may appeal the suspension of aid to the Director of Financial Aid. After reviewing the file, the Director may reinstate the aid if a course failure was due to medical circumstances, change of degree, change of major or circumstances beyond control.

If the Director denies the appeal, an appeal may be made to the Financial Aid Committee. The student must submit in writing an explanation of any special circumstances in addition to the ones listed that the committee should consider in determining whether any aid should be reinstated. After reviewing student records and written comments, the committee will give written notification of its decision. The notification will state whether or not the aid should be continued and the requirements for reinstatement. The decision of the Financial Aid Committee is final.

It is assumed that transfer students are making satisfactory academic progress when they enroll at Missouri Southern. They will be evaluated at the end of their first full academic year.

Students may continue to receive assistance under the following mitigating circumstances: meeting standards or on probation under old policy, medical problems, change of degree objective, change of major or other extenuating circumstances. The Director will determine the validity of these circumstances, provided there is appropriate documentation. Under these circumstances, students need not go through the appeal process.

For further information concerning academic progress, see the Financial Aid Office Procedure Manual in the Financial Aid Office.

Other Duties and Responsibilities of Financial Aid Recipients

Students must report the following changes to the Financial Aid Office:

1. withdrawal from school,
2. a significant change in income,
3. added or dropped classes during the semester,
4. a name change,
5. change of address or change of parents' address,
6. transfer to another college.

Work Study recipients must contact the Student Employment Office for job placement within five days of the beginning of the semester.

Missouri Southern operates on a financial aid data base system which processes applications and awards electronically. It is to the applicant's advantage to use forms and lenders which are capable of processing data by teletransmission. The electronic system requires student signatures on student aid reports, documentation, award letters, loan applications and promissory notes before funds can be processed.

Financial aid funds will be credited to the student account. Once all fees have been satisfied, monies awarded that may go directly to the student will be mailed by check to the address provided at the time

of registration. Checks are first written at the end of the third week and thereafter every two weeks throughout the semester. Student employment checks, Stafford Loan checks and SLS Loan checks must be picked up in person at the Business Office upon notification of their availability.

Veterans must sign up for veterans' benefits at the beginning of each semester.

Counseling Services

Hearnes Hall 114H, 625-9324

Missouri Southern students may receive individual personal counseling and professional testing and assessment in the Counseling Center located in Suite 114 of Hearnes Hall. Professional staff members offer individual counseling for academic or personal concerns, a variety of tests and inventories and referral services.

Testing Services

Missouri Southern is a national testing center for the following examinations:

1. ACT (Placement test for college entrance)
2. NTE (National Teachers Exam)
3. EESN (Entrance Examination for Schools of Nursing)
4. DHAT (Dental Hygiene Aptitude Test)
5. MAT (Miller's Analogy Test for graduate school)
6. CLEP (College Level Examinations Program)

The Counseling Center also gives the GED (General Education Development High School Equivalency Test) as a service to the people of Southwest Missouri who were unable to complete their high school education. The person making an acceptable score on the GED test will receive a high school equivalency certificate from the Missouri State Department of Education. Applications for GED testing are available from the Counseling Center.

All students whose native language is not English, who wish to transfer with 24 hours or more and do not have a TOEFL score of 535, will take, by appointment, the Michigan Test of English Language Proficiency.

The CLEP (College Level Examination Program) is administered by appointment. The student must contact the Counseling Center to register prior to the testing time/day. This program is designed to allow students to receive, upon attaining a passing grade, proficiency credit for general education and other freshman/sophomore programs. The Counseling Center also provides proctors and a testing room for students taking correspondence courses from other accredited institutions. Appointments must be made prior to taking the test. A fee will be charged for each test administered.

Counselors for Special Students

Certified counselors and advisers are available in the Counseling Center, 114 Hearnes Hall, for veterans, students with physical handicaps, and other special needs. The veterans' counselor is the certifying official for the College and the contact person for veterans' educational benefits. Veterans' enrollment must be certified each semester and the veterans' counselor must be informed of any changes of enrollment during the semester.

A designated counselor will assist students with physical handicaps with early enrollment, assistance in overcoming barrier problems, readers for the blind program and other concerns.

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Academic/Career Planning

Students who have not declared an academic major or who are uncertain of their major may discuss career opportunities with a professional counselor. Interest, ability and personality inventories are used by the counseling staff to assist in career decision making. A library of career materials is also available to assist students in making academic/career decisions.

The DISCOVER program, a computer based career guidance system, is also available and designed to assist students in clarifying values, assessing competencies and interests, making decisions, securing information on occupations and selecting appropriate strategies to reach career plans.

Non-Traditional Student Program

Students who have been out of school for several years often have unique concerns about returning to college. Workshops to ease the transition to college are offered periodically. A "Return To Learn" course is offered each semester as the orientation course for returning students. An organization for adult students is also available to assist in meeting the needs of adult students. The office of the counselor for non-traditional students is located in the Counseling Center, 114 Hearn Hall.

Student Activities

Billingsly Student Center 101, 625-9320

The Coordinator of Student Activities works closely with other Student Services personnel and the Campus Activities Board in providing a variety of services for students, faculty and staff at Missouri Southern.

Campus activities are scheduled in the Student Activities Office and reservations for space and food service in Billingsly Student Center are made in this office. The office also handles ticket sales for off-campus activities and entertainment.

Campus Activities Board (CAB)

The Campus Activities Board, a student organization supported by student activity fees, has the responsibility for programming social, educational and recreational activities for the entire college community. Students may volunteer to serve on one of the eight CAB committees: concerts, cultural affairs, coffeehouse, dances, movies, speakers, special events, and tour and travel. Interested students may apply in the CAB office on the lower level of Billingsly Student Center.

Student Government

The Student Senate serves as the governing body for students and acts as a liaison between the faculty and the student body. The responsibility for student government rests not only with the student officers, boards and committees but also with each member of the student body. The Student Senate is made up of nine senators from each class, who are elected in the fall, and the executive officers, who are elected in the spring. The Student Senate is funded from student activity fees.

Career Planning and Placement

Billingsly Student Center 207, 625-9343

Career Planning and Placement Office assists students and alumni in the development of employability skills necessary to conduct a successful job search and in the location of full-time employment. On-campus interviews are scheduled for seniors and alumni with representatives from business, industry, government and educational institutions. Students are encouraged to visit Career Planning & Placement to take advantage of on-campus interviews, vacancy listings, career fairs, workshops, mock interviews and assistance in preparing resumes.

Career Planning & Placement also maintains a career library which contains information on major businesses, industries and educational institutions. Information about graduate schools is available in this library along with information to aid students in choosing a career and in the job search.

Residence Halls

Billingsly Student Center 212, 625-9522

The Missouri Southern on-campus residence requirement is as follows: "All freshmen and sophomores are required to live in the Missouri Southern residence halls to the extent space is available, unless they are married, live with their parents, live with a relative or are excused by the Director of Student Life."

The College provides residence hall accommodations and meals for approximately 600 full-time students. Concerned with the total needs of the students, the College maintains a safe and comfortable place to live and an adequate physical environment as well as opportunities for learning. The atmosphere in the residence halls contributes significantly to the students' personal growth and maturity.

The residence halls are staffed by two full-time professional resident directors and 18 paraprofessional staff assistants. The governing body for resident students is the Residence Hall Association (RHA) which provides educational, social and athletic programs for the students and acts as a liaison between resident students and the College administration.

Residence hall rooms are fully furnished except for linens and personal items. Cable TV rooms, study lounges, recreational areas, personal computers, vending machines, coin-operated laundry facilities and pay telephones are in the residence halls. Private telephones may be installed in individual rooms with the occupants responsible for installation charges and monthly billings.

Resident students also are entitled to food service. Twenty meals a week are served in the Student Center Cafeteria.

To reserve a room in a college residence hall, a prospective student should request an Application Contract for Room and Board Accommodations from the Missouri Southern Housing Office. The completed Application Contract should be returned to this office with a \$75 security deposit. The deposit is retained by the College as long as the student is in residence and refunded upon termination of the contract if all terms of the contract are fulfilled.

This contract, which is a combined contract for room and meals, is effective for the entire academic year (fall and spring semesters) or for the remaining portion of the academic year if entered into after the beginning of the fall semester. Detailed terms will be found on the contract form.

The College is not responsible for the loss of or damage to, any personal property of students.

For detailed rules and regulations governing residence hall living at Missouri Southern, contact the Housing Office, Room 211, Billingsly Student Center.

Student Health Services

Kuhn Hall 303, 625-9323

The faculty and staff of Missouri Southern are interested in students' physical and emotional well-being as well as their intellectual and cultural development. The Student Health Center, staffed with a full-time registered nurse and a physician on call, is open Monday through Friday from 8 a.m. to 4 p.m. There are two weekly clinics available to students when the college physician is on campus; times and hours for these clinics can be obtained by contacting the Health Center. All currently enrolled students are eligible for treatment at the center. Some of the services offered are: first aid and injury care, allergy injections, TB skin testing, flu shots (in season) and screening for certain illnesses. Most services are free; however, students are expected to pay for laboratory, x-ray, emergency room, hospital services, prescriptions and ambulance service. The Health Center also maintains files on current students, including medical history and immunization records. Recommendation and referral to community/campus resources are also a part of our student health service.

Communicable Diseases

Students must have proof of immunization, including two doses of measles/rubella vaccine, on file in the Student Health Center. When a communicable disease comes to the attention of the College, whether student, faculty or staff member, the College's physician and nurse will assume responsibility for conducting a thorough review based upon the best medical and legal information available. Students who have not been properly immunized or who have not had these diseases may be banned from College property in the event of an outbreak on campus. Any actions taken will respect the confidentiality of the individual as well as the individual's welfare and that of the College community.

A voluntary accident and sickness insurance plan for students is available from the Student Services Office, Room 211, Billingsly Student Center.

Smoking and Tobacco Use Policy

The Board of Regents of Missouri Southern State College prohibits smoking and tobacco use of any kind. Tobacco products are not permitted in any campus buildings. Smoking and other tobacco usage is only permitted outside of buildings and in designated residence hall rooms.

Intercollegiate Athletics

Young Gymnasium 122 (men), 625-9317
Young Gymnasium 215 (women), 625-9316

Missouri Southern's athletic program is based on the concept that intercollegiate athletics are an integral part of the total educational process, subject to the same aims, policies and objectives as other departments. The College's sound athletic program provides the benefits of athletic participation while assuring that athletes fulfill their responsibility as students. Though the primary concern is that

the athletic program further the educational process, the College must be aware of the public attention that focuses on the institution through intercollegiate sports. While the public attention and the entertainment aspects of intercollegiate sports must be recognized, they are secondary in importance to the role of athletics in the total educational program.

The staff of the athletic department provides quality programs for students who express an interest in various sports. Male and female students have similar opportunities to participate in athletic activities with appropriate support.

The College is a member of the Missouri Intercollegiate Athletic Association and the National Collegiate Athletic Association, Division II. College teams compete on the intercollegiate level in baseball, basketball, football, golf, soccer, softball, tennis, volleyball, cross country and track.

Student Conduct

In order to provide the best possible environment for personal and intellectual growth, the College has established regulations to guide student conduct. A summary of these rules and regulations is found in the Student Handbook which may be obtained from the Student Services Central Office, Room 211, Billingsly Student Center. Additional guidelines to insure the safety and comfort of resident students are in the Residence Hall Handbook which is available from the Director of Residential Life.

Drug and Alcohol Prevention Program

Pursuant to the Drug-Free Schools and Communities Act Amendments of 1989, Missouri Southern State College is required to establish a drug and alcohol prevention program for its students. The College's program is described below. A biennial review of this program will be done to determine its effectiveness, to implement changes to the program if they are needed to ensure that the College's disciplinary sanctions are consistently enforced.

Substance Abuse Policy: Students are prohibited from using alcoholic beverages and illegal drugs on College-owned or controlled property and at College-sponsored or supervised activities. Irresponsible alcohol or other drug use off campus resulting in disorderly conduct on campus also is not acceptable. Any student of Missouri Southern State College found to have manufactured, dispensed, possessed or used a controlled substance in violation of the Substance Abuse Policy of this College will be subject to discipline in accordance with College policy and reported to local, state or federal law enforcement authorities for criminal prosecution. Criminal prosecution for these acts could lead to a conviction and such a conviction could result in a sentence imposing a monetary fine, imprisonment in a state or federal penitentiary or both.

Health Risks: Specific serious health risks are associated with the use of illicit drugs and alcohol. Some of the major risks:

Alcohol and other depressants (barbiturates, sedatives and tranquilizers): addiction, accidents as a result of impaired ability and judgment, overdose when used with other depressants, damage to a developing fetus, heart and liver damage.

Marijuana: addiction, panic reaction; impaired short-term memory; increased risk of lung cancer and emphysema, particularly in cigarette smokers; impairment of driving ability.

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Cocaine: addition, heart attack, seizures, lung damage, severe depression, paranoia, psychosis. Similar risks are associated with other stimulants, such as speed and uppers.

Hallucinogens (acid, LSD, PCP, MDMA, etc.): unpredictable behavior, emotional instability, violent behavior, organic brain damage in heavy users, convulsions, coma.

Narcotics (heroin, Demeral, morphine, Codeine, etc.): addiction, accidental overdose, risk of hepatitis and AIDS from contaminated needles.

Inhalants (gas, aerosols, glue, nitrites, etc.): loss of consciousness, suffocation, damage to brain and central nervous system, sudden death, nausea and vomiting, nosebleeds, impaired judgment.

Resources: A variety of resources exist for drug or alcohol counseling, treatment or rehabilitation programs. A few are listed inside the front of the *Student Handbook*. For more detailed information concerning these resources and others available from the College and/or community agencies, students may contact the Counseling Center (417-625-9595) or the Student Services Office (417-625-9392). Such referrals will respect individual confidentiality.

A main objective of the drug and alcohol prevention program is to encourage healthy attitudes and behaviors on the part of all students and responsible decisions about alcohol/drug use. Another objective is to provide students in certain high risk groups (freshman, Greeks, athletes, residence hall students, etc.) with specific and up-to-date information regarding the long-and-short-term effects of alcohol/drug use. A final objective is to provide students with the necessary skills to help them carry out the decisions they have made in regard to their use or nonuse of alcohol/drugs, and how to effectively handle certain "high pressure" situations.

To meet the above objectives, information and assistance is provided to students in several ways. First, alcohol and drug films are shown and programs conducted in all orientation classes, which are required for all new students. Additional alcohol and drug information is presented in other academic classes, including HPER 103, Lifetime Wellness. Pamphlets about alcohol and drug use are distributed each semester in residence hall rooms and in the Student Center. Special alcohol and drug training is provided annually for residence hall staff and orientation leaders.

The athletic department provides a program for varsity athletes. Special alcohol and drug programs are presented throughout the year. Active drug testing is done. A committee of counselors, teachers and clergy are available to assist varsity athletes.

The Student Services Office, Campus Activities Board and the Residence Hall Association provide alcohol and drug programs throughout the year for all students.

Sexual Harassment Policy

Missouri Southern State College is committed to the principles of equal opportunity and does not discriminate on the basis of race, age, sex, religion, national origin or handicap. The U.S. Equal Employment Opportunity Commission has issued guidelines: It is the policy of Missouri Southern State College that no member of the campus community may sexually harass another individual. Sexual harassment defined as the use of one's authority or power to coerce another into unwanted sexual relations or to punish another for his/

her refusal, or the creation by a member of the college community of an intimidating, hostile or offensive working education environment through repetitive verbal or physical conduct of a sexual nature, shall be a violation.

Any student with a sexual harassment complaint may contact the Vice President for Student Services or the Director of Student Life.

Campus Security Act Policies and Procedures

1. All campus crimes should be reported immediately to Campus Security. Campus security officers are available on campus 24 hours of every day. The number to call for on-campus personnel is extension 391. Off-campus personnel should call 625-9391 during the weekday office hours of 7:00 a.m.-4:00 p.m. After hours, weekends and holidays, the number is 437-0390. This will contact the security officer on duty directly via cellular phone. Each call will be responded to by a campus security officer.
2. All academic buildings are locked each evening and during the weekends. One security officer makes nightly rounds, using a computerized security key system. All residence halls, except North Hall are locked at midnight Sunday-Thursday and 2:00 a.m. on Friday and Saturday. Individual keys are issued to each resident student. Another security officer is on duty in the residence hall area from 11:00 p.m. to 7:00 a.m. each day.
3. The Security Department personnel are not commissioned law enforcement officers. However, each officer has completed the coursework necessary to meet the state requirements to be commissioned. There is an excellent working relationship between the department and the city and county law enforcement agencies. All employees and students are directed to report all occurrences of any criminal activity to the Campus Security. Campus Security is directed to report all felonies to the Joplin Police Department.
4. These policies and procedures are published in the *Student Handbook* which is distributed to all freshmen students. Each semester during freshman orientation, seminars are given covering date rape, safety tips and security procedures.
5. Crime prevention programs are presented each semester by the Campus Activities Board, Student Services and Residence Hall Association. Pamphlets regarding crime prevention are distributed to all resident students and are made available to all students in the Student Center.
6. MSSC does not have off-campus student organizations recognized by the institution.
7. Crime statistics are available in the Campus Security Office.

Student Identification Cards

The student identification card is produced by the College and issued to all students as a means of personal identification. The College reserves the right to request a student to produce the I.D. card at any time deemed necessary. The student I.D. is a service to students currently enrolled who wish to use college facilities and services. The first student I.D. costs \$2.00; replacement cost for lost cards is \$5.00. Student I.D. cards may be obtained at the Campus Security Office.



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Academic Affairs

Vice President for Academic Affairs

Robert C. Brown

Hearnes Hall 200, 625-9394

Staff: Ray A. Malzahn, Dean, School of Arts and Sciences; James M. Gray, Dean, School of Business; Edward P. Merryman, Dean, School of Education and Psychology; Donald L. Seneker, Interim Dean, School of Technology; Judy Bastian, Assistant to the Vice President; R. Jerry Williams, Director of Continuing Education; Charles H. Kemp, Head Librarian; Eugene C. Mouser, Registrar; Delores A. Honey, Director of Center for Assessment and Institutional Research; and Myrna Dolence, Coordinator of the Learning Center.

The Office of the Vice President for Academic Affairs is responsible for the administration of the instructional program both on and off campus. The Learning Resources Center, the Honors Program, the Continuing Education Program, the Writing Program, the Assessment Program and all academic units are under its direction.

The George A. Spiva Library

Spiva Library 205, 625-9386

Charles H. Kemp, Head Librarian

Librarians: Robert Black, Mary Lou Dove, Susan Huston, Charles Nodler, Gaye Pate and Edward Wuch.

The Library consists of two units:

1. George A. Spiva Library
2. The Audio-Visual Center

The George A. Spiva Library

The Spiva Library is the major information resource on campus. Available in the library for student use are 208,000 book volumes and 1,224 periodical titles. A state and federal government documents collection; a law library; and over 500,000 items in microform provide additional reference materials for student research. Additional collections housed in the archives area are the Congressional papers of Gene Taylor, tri-state mining maps, and the papers of the late Dr. Arrell Gibson, a noted western historian.

The collections are housed in an attractive facility that was constructed in 1967. There have been two renovations of the building since then, with a third anticipated in the near future. The staff is composed of seven librarians, 12 support staff members and part-time student staff members.

The teaching function of the library is considered of great importance as befits a college which prizes excellence in the intellectual development of its students. Every effort is made to insure that students learn how to conduct research in the library effectively and to use its resources knowledgeably. Tours of the library are given by librarians and student guides. Workshops, class lectures and additional assistance are provided by librarians. The library staff also teaches individual library patrons how to use information sources and assists them with their needs for research and information.

Modern technology is used heavily in Spiva Library. Interlibrary loan requests are sent and received through a nationwide computer network of libraries. Locations of requested materials can be determined in minutes through the OCLC Network which has a database



of over 23 million records on-line in over 11,000 member libraries. A telefacsimile machine service is used to rapidly send and receive copies of periodical articles. The Library has access through the INTERNET to hundreds of library catalogs. With a MIX card furnished by Spiva Library, MSSC students and faculty can borrow library materials in person at any of the other campuses of the Missouri publicly supported colleges or universities.

All functions of the library are completely automated. Students at home or professors in their offices can determine what materials the library has. A useful feature of the system tells whether a particular book is checked out. To access these functions, the students or professors use the LION, the library's on-line public access card catalog connected to office terminals or home computers with dial-up capability. In addition to the modern OPAC, students and faculty enjoy automated circulation with no-wait checkout of library materials.

The staff provides fast ordering and cataloging of library materials through the automated ordering and cataloging features of the NOTIS system. The state-of-the-art integrated library automation software that is used by Spiva Library is licensed and supported by NOTIS Inc. The compact disk technology has made retrieval of subject matter in periodicals so easy that it has become the preferred method of researching periodical literature for students. The major indexes in the fields of business, education, social science, history, psychology, English, biology, and nursing are available in the CD-ROM format. Newsbank, The Academic Index, The Grolier Encyclopedia and the Oxford English Dictionary are a few of the formerly print only reference materials that are used in the

CD-ROM format in the Spiva Library. For indexes that are not available in the library, the reference staff can conduct on-line searches through DIALOG or BRS. These information services have several hundred additional databases.

The library has even gone beyond indexes and can furnish the full-text of articles found in the indexes in CD-ROM format for two of the databases. After a student has searched ABI/INFORM or General Periodicals Index, he or she can insert a CD-ROM in the player and either read the full article on the screen or print a copy on the laser printer. With all of these information sources at their disposal, students at Missouri Southern never lack for information for research papers.

The Audio Visual Center

Located on the 4th level of the library with government documents, the AVC is the audio-visual materials component of the Spiva Library. These materials include video and audio tape materials, films, slides, kits and miscellaneous instructional materials. Curriculum textbooks, curriculum guides on microfiche, juvenile and children's books which support the teacher training curriculum are housed in this area. Materials in this area are cataloged and made available through the LION. The AVC provides appropriate playback equipment for all of its materials.

The staff provides limited production services such as making overhead transparencies, laminating materials and copying audiotapes. IBM compatible personal computers are connected to a local area network. Using these workstations, students can work on their research with the word processors and databases installed on this LAN. Equipment is available in each school and department, so the equipment available for checkout from the AVC is limited. The equipment includes basic items such as slide projectors, video cassette recorders and monitors, audio cassette recorders, and filmstrip projectors. Helpful staff are stationed in this area to provide assistance with the computers, government documents, or audio-visual materials.

The Honors Program

Webster Hall 137, 625-9686

David L. Ackiss, Director
Patricia P. Kluthe, Assistant Director

The Honors Program at Missouri Southern is intended to encourage academic excellence by providing special opportunities and challenges for exceptional students. Features of the program are as follows:

1. All full-time students admitted to the Honors Program will receive a four-year renewable scholarship that covers tuition, book rental fees and student activity fees for fall, spring and summer semesters. Additional scholarship funds to cover room and board are available to National Merit Scholarship finalists and semi-finalists and to those who have a cumulative score on the ACT in the 98th or 99th percentile.
2. Honors sections of selected Core Curriculum courses are available to Honors Students.
3. Other special features include optional accelerated graduation (a three-year program), honors residence hall space, individually enhanced classes tailored to student potential, individualized advising, colloquia, guest speakers, opportunities for sponsored research, exploration of professional and graduate study opportunities and senior research projects.

4. Recognition is given to Honors Program members who successfully complete the program at Honors Convocation, at graduation and by a notation on their permanent records.

Who Is Eligible?

All students who wish to participate in the Honors Program must be admitted to Missouri Southern State College. Incoming freshmen with a composite score on the Enhanced ACT of 28 or above or with a grade point average of 3.5 or above (on a 4.0 scale) in high school course work, are invited to apply for admission to the program. Two letters of recommendation, from the student's high school principal and from a high school teacher, an essay and an interview are required of applicants.

Students who have already completed no more than 30 hours of course work with a grade point average of 3.5 or above at Southern or any other accredited college or university, also are invited to apply. For application material and further information, contact: Director, Honors Program, Missouri Southern State College, Joplin, MO 64801-1595. Application deadline: April 1.

Summer Study at Oxford

To live and study at historic Christ Church is considered by many to be an experience of a lifetime. Missouri Southern offers an elective summer study program with Oxford, the world's foremost university. This program is in cooperation with Florida State University.

Students will participate in small seminar groups led by Oxford University tutors and live in an atmosphere of Oxford College life as it has survived over the past 700 years. In addition, students will be able to meet with tutors and visiting scholars in an informal atmosphere.

A selected group of students have the opportunity to participate based on their advanced academic standing for hours accumulated and grade point average. Qualified students select courses offered in three week sessions on various subjects. Missouri Southern grants partial scholarships to selected students each year. Honors Program students are given priority consideration in the selection process. Faculty members also are chosen to take part in the program. There is time for students to enjoy the rich heritage of England through formal tours or individual excursions. Even though it is brief, a great opportunity awaits those selected to be a member of this distinguished community of scholars and a participant in the Oxford experience.



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The Division of Continuing Education

Webster Hall 133, 625-9384

R. Jerry Williams, Director

The Division of Continuing Education embraces the life-long learning concept by providing credit and non-credit courses that supplement the college curriculum. Over 34,000 students have enjoyed learning opportunities in a wide range of academic and non-academic subjects.

The Division also is responsible for distance education programs offering courses off the main campus. Delivery systems include customized training provided at business and industrial sites, video tape correspondence courses and courses offered through the college television broadcast station and microwave system. Numerous seminars and workshops are also offered through the Division of Continuing Education for professional continuing education credit and personal self enrichment. Subjects vary from art workshops to ocular pathology.

Information concerning various programs may be obtained by contacting the Division of Continuing Education located in Webster Hall, Room 133.

The Learning Center

Mansion Classroom Building, 625-9373

Myrna Dolence, Coordinator

Staff: James Brown, Jan Dursky, Eillen Godsey

The Learning Center offers academic assistance to all students attending Missouri Southern. The Center provides a wide range of services:

1. computer lab for all students;
2. computer assisted programs in reading and writing;
3. supplemental instruction in designated classes;
4. peer and professional tutoring;
5. counseling.

Required classes in composition and reading, designed to meet the needs of underprepared students, are offered through the Center. Additional classes in reading and study skills are available.

The Center for Assessment and Institutional Research

Matthews Hall 321, 625-9696

Delores A. Honey, Director

Missouri Southern is committed to the measuring of outcomes of curricular programs. Both the Core Curriculum and the major will be assessed each year. The relative strength of programs can be judged and actions formulated to ensure that all programs provide the best possible opportunities to students. Student opinionnaires will be given every two years.

The Writing Program

Hearnes Hall 320

Joseph Lambert, Director

Each student is required to complete five writing intensive courses as a part of the baccalaureate degree. The director and a faculty committee advise the Vice President for Academic Affairs on the development and supervision of the program.



Academic Regulations

Hearnes Hall 109, 625-9378

Regular Admission for 1993-94

Students who have participated in a formal educational program within the past five years (high school or college) will be admitted if:

1. they rank in the upper one-half of their high school graduating class; OR
2. they have a composite score of 17 or above on the Enhanced ACT national admissions test. GED students must have a composite score of 17 or above on the ACT.

Students who do not meet the standards quoted above may seek a waiver of this policy through the Admissions Office Appeal Committee. Students who do not meet regular admissions criteria are ineligible for financial aid.

For 1994-95: Additional Requirements

Missouri Southern has established a High School Core Curriculum as an additional requirement for admission, to be phased in beginning with those who graduate from high school in 1994 and who apply for admission in the summer or the fall of that year.

In addition to the Class Rank and ACT requirements outlined above, students applying for summer or fall admission in 1994 must have completed 10 units from the High School Core Curriculum listed below. The distribution must include at least: 3 units in English, 2 units in mathematics, 2 units in social studies, 1 unit in science.

The High School Core Curriculum:

English, 4 units. All courses must include substantial communication components. One unit may be in speech or debate. Two units emphasizing composition or writing skills are required.

Mathematics, 3 units. The units must include Algebra I, Algebra II, and Geometry. A fourth, higher level mathematics course is strongly recommended.

Social Studies, 3 units. Courses should include United States history, and courses selected from world history, government, geography, and economics.

Science, 2 units. General Science does not count. One unit must include a laboratory. Biology, physics and chemistry are strongly recommended.

Visual/Performing Arts, 1 unit. Fine Arts Courses include such areas as visual arts, music, dance or theatre.

Electives, 3 units. These may be selected from foreign languages (2 units of the same foreign language strongly recommended), world geography, higher level mathematics, additional science, advanced placement courses, or combination of the Core Courses listed above.

Additional information concerning the High School Core Curriculum may be obtained from the Office of Admissions.

Experience has shown that those students who complete the High School Core Curriculum are better prepared to take advantage of the opportunities offered by the college experience, and that they enjoy a greater measure of success in college.

Admissions requirements are subject to change without notice.

The Admissions Office Appeal Committee: The committee will act favorably to the appeal only if they determine the student has the ability to succeed and is appropriately motivated. Specific courses and/or a reduced load may be required. The committee may make one of three decisions: grant admission, grant special (probationary) admission; deny admission.

Students With Previous College Experience

Former MSSC Students Former Missouri Southern State College, Jasper County Junior College and Joplin Junior College students must inform the Office of Admissions of their intention to return. When necessary, these students will be required to update their credentials.

Transfer Students Students transferring from another collegiate institution must present credentials listed on page 32, plus: (a) have official transcripts sent to the Director of Admissions by the Registrar from each collegiate institution attended, (b) be eligible to return to their last institution, and (c) pay a \$10 non-refundable application fee. Individuals transferring to Southern who have not taken English or math or are seeking a degree in education must file ACT scores. Transfer students must adhere to the standards for progress toward graduation.

Transfer students must also take the senior year or 30 out of the final 36 hours in residence at Missouri Southern.

Transient Students Students in good standing at other colleges and universities may wish to enroll at Missouri Southern for the purpose of transferring back to their institutions the credit earned. Admission requires completion of the application form, payment of the \$10 non-refundable application fee and a statement of good standing from the authorized college official or Registrar of the student's home college or university. Students wishing to continue course work at Missouri Southern State College must meet admissions criteria.



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Non-Traditional Students Students who have not participated in a formal educational program (high school or college) within the last five years may apply to the Admissions Office for a one-year waiver of academic admission requirements. Following that year, the student must supply regular credentials to the Admissions Office.

Special Program Admissions

International Students International Students not citizens of the United States who wish to apply for admission should write the Director of Admissions for the proper application forms and instructions. In addition to the admission credentials required of all students page 32, international students must satisfy these concerns: (a) academic competency, (b) ability to read and speak the English language adequately for college level study and (c) ability to finance the cost of education at Missouri Southern. All applicants from non-English speaking nations must score in the 75th percentile on the Michigan Test for English as a Foreign Language or score 535 on the TOEFL Test. Deadlines for completed application for admission are:

Freshman

Fall Semester—July 1
Spring Semester—November 1
Summer Semester—April 1

Transfer

Fall Semester—July 10
Spring Semester—January 2
Summer Semester—May 25

Students who are citizens of the United States and use English as a second language must pass English language competency. A TOEFL test score of 535 or a score in the 75th percentile on the Michigan Test is required of these students.

Dual Credit The Missouri Department of Elementary and Secondary Education has authorized Missouri Public High Schools and Missouri Public Colleges and Universities to grant Dual Credit to High School students simultaneously enrolled in College and High School. Missouri Southern is pleased to participate in this program. Admission to courses for Dual Credit is selective, and is subject to specific conditions. Additional information may be obtained from the Office of the Vice President for Academic Affairs.

Credit-in-Escrow The credit-in-escrow program consists of college studies for outstanding high school students. They must have the approval and recommendation of their high school principal.



Special A person who has not graduated from high school or who is unable to present regular credentials, may be admitted on a probationary basis. A student admitted under this regulation must meet and maintain the academic standards for progress toward degree and may be required to fulfill other conditions stated at the time of enrollment. Upon successful completion of 59 semester hours the status of the student may be changed from "special" to "regular."

Continuing Education

Off-Campus Extension Regular college curriculum classes frequently are offered off campus. Students who enroll in these classes will generally be enrolled as a "temporary" student.

Off-Campus—Credit The College is committed to offering educational experiences necessary for community betterment. When possible, these classes are structured in such a manner as to allow college credit for the classes. Such students are enrolled as "temporary" students.

Off-Campus—Non-credit Often the College offers classes primarily for entertainment or avocation purposes. Students enrolling in these classes may do so with the permission of instructor.

Credentials Required for Admission

Regular Admission

- (1) **High School Transcript** An official transcript of high school credits must be filed showing that requirements for graduation have been met. A 6th, 7th or 8th semester rank in class must appear on the record. (The College will accept a satisfactory score on the General Educational Development (GED) test in lieu of a high school transcript.)
- (2) **Placement Test** Missouri Southern participates in the American College Testing Program. Scores from this test battery must be presented, within three years from the time the test was taken, as an admission credential. These tests are administered at nationally approved test centers five times a year. Missouri Southern is a test center.
- (3) **Application** The application for admission must be completed one week before the first day of enrollment (see college calendar). This includes all credentials required by the Admissions Office.
- (4) **Application Fee** A fee of \$10 must be included with the application for admission. (This fee is non-refundable and non-applicable to other college fees.)
- (5) **Admission for Non-residents of Missouri** A non-resident of Missouri is required to submit the same credentials as a resident.
- (6) **Veterans** Veterans who plan to attend under the G.I. Bill of Rights or Veteran's Orphans Act must present a certificate of eligibility at the time of enrollment.
- (7) **Miscellaneous Requirements** Additional credentials are required from students whose application credentials raise questions about their acceptability into the student body. While the College makes every effort to give each applicant an opportunity for a college education, it reserves the right to deny admission when the College's ability to meet the need of the student and/or the welfare of the student body are in question. Students who do not attend Missouri Southern within one year after making application must submit new credentials when seeking admission again.

Special Admissions

The Health Sciences (nursing, dental hygiene and radiologic technology) Admission to Missouri Southern does not automatically confer admission to the programs of nursing, dental hygiene, radiologic technology, etc. In addition to meeting the admission requirements for the College, candidates who are interested in these health career programs are required to apply for admission to the department. Application forms may be obtained from the department of nursing office, Kuhn Hall; the dental hygiene department office, Ummel Technology Building; or the radiology department of St. John's Regional Medical Center. Applications should be submitted prior to March 1, preceding the fall semester in which the student wishes to enroll. Each application is reviewed by the Admissions Committee of the respective department. See nursing department page 152, dental hygiene department page 147 or radiologic technology page 152 under affiliated programs for full information on admission and acceptance criteria.

Honors Program This program is intended to encourage academic excellence by providing special opportunities and challenges for exceptional students. Entrance into the program is by invitation. Interested students should ask the Director of Admissions for an Honors Application form.

Temporary In some instances, students may wish to enroll for a limited amount of credit without submitting transcripts of previous academic work. This may be done with the following contingencies: (1) no more than 15 semester hours of credit may be earned in this manner, (2) credit earned while enrolled as a temporary student may not be counted toward a degree or certificate unless the student changes status and (3) work beyond 15 semester hours will not be permitted until such time as all credentials are filed for regular admission.

Return to Learn Adult students can and do face problems and situations unique to their age group. These may include having families to support, needing child care, feeling alone in their age group and being uncertain of their abilities. This program is designed to prepare adult learners to continue their education with confidence. These students will be admitted under the "special" category listed above.

60 Plus This program is designed to serve interested individuals over the age of 59. Community residents may enroll in any course on a space-available basis without providing previous transcripts. Compliance with course prerequisites is necessary and is the students' responsibility. Enrollment takes place after regular registration. 60 Plus students may elect to receive grades and credit for their courses. If students enrolled via 60 Plus later desire to become regular students, they must make application to Missouri Southern for a future semester.

Placement, Examinations, Credits

Resident Credits from Institutions of Equal Standing with Missouri Southern State College

Credits transferred from accredited colleges and universities will be given full value in similar courses whenever possible. The amount of credit given for courses studied in other institutions may not exceed the amount given at Missouri Southern for the same length of time of instruction. Students may not transfer credits to satisfy more than one half of the major course requirements in a department unless the approval of the Vice President for Academic Affairs is obtained.

Transfer of Resident Credits from a Junior College

Credits will be accepted by transfers from a junior college to meet lower division (freshman and sophomore, 100-200 level course) requirements only. A total of 64 semester hours of credit earned at a junior college is the maximum that may be applied toward a baccalaureate degree. After 64 semester hours have been earned by the student, credit should not be taken at a junior college. A minimum of 64 semester hours must be earned in a senior college to obtain the baccalaureate degree from Missouri Southern.

Students who have completed a college transfer curriculum and have been awarded an associate of arts degree from an accredited public two year college in Missouri, prior to enrolling in Missouri Southern, are assumed to have fulfilled the lower division Core Curriculum requirements. Students will be directed immediately into their major area according to their preparation. Transfer students who have not completed the associate of arts as stated above will have their courses evaluated individually.

Transfer students must take a minimum of 30 of the last 36 semester hours for the baccalaureate degree in residence at Missouri Southern.

Advanced Standing Examination

A student whose travel, employment, extensive readings or other unique educational experiences appear to have provided proficiency in a course required in the curriculum equivalent to that ordinarily attained by those taking the course in regular classes, may be granted permission to take an advanced standing examination. This examination may be a subject matter test of the College Level Examination Program (CLEP) or a comprehensive test designed by the department to cover the subject more fully than a regular final examination. In order to receive credit for a departmental examination, a student must have the following qualifications in addition to those listed above:

- (a) be enrolled in college at the time of the examination;
- (b) not have taken an examination over the course within the preceding six months;
- (c) not have credit in a more advanced course in the same field;
- (d) be working toward a degree at Missouri Southern State College;
- (e) have the approval of the head of the department in which the course is offered;
- (f) not use examination to replace a previously earned grade.

After a student has taken a departmental examination, the professor will transmit the grade to the Vice President for Academic Affairs Office. If performance is equated as a "C" grade or above, the Registrar will record the credit.

The College may award credit based on scores from the CLEP General Exam. The applicant for the CLEP General Examination must be a first time college student and may not apply to take the exam until three years after high school graduation.

Students may initiate an examination in the CLEP program by contacting the Director of Counseling and Testing. A student may initiate a departmental test with the head of the department. After the student has taken the CLEP examination, the test will be graded in Princeton, New Jersey. Scores will be sent to both the Vice President for Academic Affairs and the student. If performance is equated as a "C" grade or above, the Registrar will record the credit.

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Missouri Southern participates in the CLEP General Examination Program. Entering freshmen who have delayed college entrance by as many as three years since high school graduation may take the CLEP General Examination.

Three to six hours may be awarded in each of the five test areas. Credit will be granted only if the score is 500 or above on mathematics, humanities, natural sciences and social sciences and history. A score of 610 will be required on the English examination. Credit earned by the CLEP examination may not be used to replace a previously earned grade.

International Baccalaureate

Missouri Southern will grant up to 30 semester hours or the equivalent of one full year of college study, to those who have completed study in the International Baccalaureate curriculum in high school. Missouri Southern will grant college credit and advanced placement for International Baccalaureate courses completed at the higher level with a score of four or greater. Students with such backgrounds should contact the Vice President for Academic Affairs through the Admissions Office for a detailed analysis of credits and standing.

Advanced Placement Test (AP)

Missouri Southern participates in the Advanced Placement Program sponsored by the College Entrance Examination Board. Credits are granted for course areas in which a student has completed Advanced Placement Examinations with a score of 3, 4 or 5.

Correspondence, Extension and Television Course Credit

Missouri Southern does not offer courses by correspondence or extension; however, it does accept credit earned in this manner from regionally accredited institutions.

No student will be permitted to apply course work in correspondence or extension toward his or her degree after a total of 12 hours has been completed in correspondence, extension or TV courses. Military Service students who have completed a minimum of one year of active military service may be granted credit to meet the HPER 101 and HPER 103 requirements of the Core Curriculum. Thus, these requirements will be satisfied if the DD214 form is submitted to the Missouri Southern Registrar's Office. Credit may also be granted for specific military schooling as recommended by the American Council of Education. The credit granted will be comparable to courses listed in the bulletin and will carry the grade of "Cr". The veteran must present documentation designating the military course, date and site of the course.

Validation Examinations

If Missouri Southern refuses to accept a student's earned credit in a course because of the method in which the course was taken or because the institution at which the course was taken was not accredited, the student may apply for a validation examination. In order to qualify for a validation examination a student must: (a) be enrolled in college at the time the examination is taken; (b) present the necessary evidence to prove that the course was taken; (c) get approval from the Registrar, the school dean and the head of the department in which the course is offered; and (d) initiate the proceedings within the first eight weeks after entering college.

The student initiates the request for examination at the Registrar's Office. The school dean and the department head will appoint a professor to construct, administer and evaluate the examination. The result is reported to the Registrar who records the grade if it is "C" or above.

The Honors Program

Entering students will be governed by policies clarified on page 31 of this catalog. In addition, students generally will not be admitted to the Honors Program after they have earned 30 credit hours. However, if such a student presents a plan to take the 24 honors hours required to complete the program, that student would be considered by the Honors Committee on an individual basis.

Graduation

- A. **Graduation Requirements** The responsibility for satisfying all requirements for a degree rests with the student. Advisers, faculty members and administrators offer help to the student in meeting this responsibility.
- B. **Time of Graduation** A student may complete graduation requirements at the close of any semester. Formal announcement of graduation is made and degrees are conferred at the close of the spring semester. All students completing graduation requirements since the preceding commencement are expected to participate in the commencement activities.
- C. **Placement Services** Each degree candidate must register in the Office of Career Planning and Placement.
- D. **Degree Candidacy Application** Each student must make application for degree candidacy during the semester preceding the last semester in attendance. The application form is available in the office of the Registrar.
- E. **Senior Assessment** All graduating seniors are required to complete a Core Curriculum and a departmental exit assessment before the baccalaureate degree is awarded. Effective: July 1, 1988.



Baccalaureate Degree Requirements

- A. Residence** The student must have earned 30 out of the final 36 semester hours in residence at Missouri Southern. (This regulation does not apply to three-one affiliation programs.)
- B. Credit Hours** At least 128 semester hours of college credit applicable to a baccalaureate degree are required for graduation.
- C. Grade Point Average** The following grade point averages are required for graduation:
1. a 2.0 cumulative grade point average for all credit hours attempted;
 2. a 2.0 grade point average within the major (exception: selected majors may have other requirements;)
 3. at least a 2.0 grade point average for all courses taken in the major department;
 4. a grade point average of 2.75 and an ACT composite score of 20 Enhanced as required for the Teacher Education Program.
- D. Upper-Division Hours** A minimum of 40 semester hours in upper division courses (those with numbers in the 300's and 400's) must be presented to meet the graduation requirements. Reasonable adjustments are made for three-one affiliation programs.
- E. Writing Intensive** Five writing intensive courses will be required of all baccalaureate degree candidates. Six hours must be completed in the freshman year and two of the three remaining courses must be taken at the junior and/or senior level. One upper division course must be taken in the student's major. (Writing Intensive courses may be identified in the "schedule of classes" by a "WI" placed at the end of the course number. Example: Psy 480WI Senior Seminar.) Students transferring to Missouri Southern from another college will fulfill the Writing Intensive requirement as follows:
- | | |
|--|--|
| Total hours at time transfer to Missouri Southern: | Minimum Writing Intensive courses required: |
| Less than 30 hours | Five courses as outlined above |
| 30 to 59 hours | Three courses, with at least two at the junior/senior level, one of which must be in the major |
| 60 to 89 hours | Two courses at the junior/senior level, one of which must be in the major |
| 90 hours or more | One course in the major |
- F. Foreign Language** All students expecting to graduate with a bachelor of arts degree must successfully complete 12 hours of the same foreign language as a part of the graduation requirements.
- G. Special Education** All students expecting to graduate with a bachelor of science in education degree must successfully complete two hours of Special Education (Educ 302) as a part of graduation requirements.

- H. Computer Literacy** All students will receive computer instruction to a level of understanding necessary for them to function as a member of society and to a level of skill sufficient to use the computer for problem solving within their discipline. Department heads will certify the competency of the students in their disciplines.
- I. Major Field** A minimum of one half of the upper division courses that are required for the major must be earned in residence at Missouri Southern.
- J. Assessment** All degree candidates are required to participate in College assessment of outcomes activities.
- K. Core Curriculum Requirements** Missouri Southern has a Core Curriculum program that contributes toward the development of the whole person, as an individual and as a member of society. All degree candidates must satisfy the following Core Curriculum requirements:

Baccalaureate Degree

Area 1. Basic Requirements*

	Credit Hours Required
A. <i>English Compositions</i> Freshman Year (Eng 101 and 102 OR achievement in the required competency level can be done in Eng 111 in 3 hours)	6
B. <i>Communication</i> Comm 100 Oral Communication	3
C. <i>Mathematics (110 or above) **</i>	3
D. <i>Physical Education **</i> HPER 103 Lifetime Wellness** (2) HPER 101 Physical Activity (1)	3
Total for Area 1	15 Hours

Area 2. Humanities And Fine Arts

A. <i>Select one</i> Art 110 Art Appreciation (3) Mus 110 Music Appreciation (3) Th 110 Theatre Appreciation (3)	3
B. <i>Select one</i> Eng 261,262 World Masterpieces (3) Eng 271,272 English Masterpieces (3) Eng 281,282 American Literature (3)	3
C. <i>Select one</i> Eng 150 Introduction to Literature (3) Eng 305 Short Story (3) Eng 261,262 World Masterpieces (3) Eng 271,272 English Masterpieces (3) Eng 281,282 American Literature (3) Phil 201 Introduction to Philosophy (3) Art 110 Art Appreciation (3) Mus 110 Music Appreciation (3) Th 110 Theatre Appreciation (3)	3
Total for Area 2	9 Hours

Area 3. Natural Science and Behavioral Sciences*

A. <i>Bio 101 General Biology **</i>	4
B. <i>Phy 100 Fundamentals of Physical Science**</i>	5
C. <i>Select one</i> Psy 100 General Psychology** (3) Soc 110 Sociology (3)	3
Total for Area 3	12 Hours

36 / Core Requirements

Area 4. American Cultural Studies*

A. Hist 110 U.S. History 1492-1877	3
AND	
Hist 120 U.S. History 1877-Present	
OR	
Hist 320 U.S. History 1877-Present	3
PSc 120 Gov't: U.S., State, Local	3
Econ 180 American Economic System	3
(Majors and minors in business should take Econ 201)	
Total for Area 4	12 Hours

Area 5. International Cultural Studies*

A. <i>Select one:</i>	3
Hist 130 or 140 Western Civ	(3)
Geog 211 Regions and Nations	(3)
Soc 155 Physical Anthropology and Archeology	(3)
Foreign Language	(3)
GB 310 International Business	(3)
Soc 342 Comparative Cultures	(3)
Comm 305 Intercultural Communication	(3)
Soc 303 The Arab World	(3)
CJAd 301 International Justice Systems	(3)
Phil 320 Comparative Religion	(3)
Eng 385 Continental Novel	(3)
Total for Area 5	3 Hours
Total Core Curriculum Requirements	51 Hours

*Occasionally, selected courses may be substituted for this area.
 **See degree requirements listed in the Catalog for courses that are substituted for specific majors.

Area 2. Humanities and Fine Arts*

A. <i>Select one</i>	3
Art 110 Art Appreciation	(3)
Mus 110 Music Appreciation	(3)
Th 110 Theatre Appreciation	(3)
B. <i>Select one</i>	3
Eng 261,262 World Masterpieces	(3)
Eng 271,272 English Masterpieces	(3)
Eng 281,282 American Literature	(3)
C. <i>Select one</i>	3
Eng 150 Introduction to Literature	(3)
Eng 305 Short Story	(3)
Eng 261,262 World Masterpieces	(3)
Eng 271,272 English Masterpieces	(3)
Eng 281,282 American Literature	(3)
Phil 201 Introduction to Philosophy	(3)
Art 110 Art Appreciation	(3)
Mus 110 Music Appreciation	(3)
Th 110 Theatre Appreciation	(3)
Foreign Language	(3)
Total for Area 2	9 Hours

Area 3. Natural Sciences*

A. <i>Bio 101 General Biology**</i>	4
AND	
Phys 100 Fundamentals of Physical Science**	5
Total for Area 3	9 Hours

Area 4. Social and Behavioral Sciences*

A. PSc 120 Gov't: U.S., State, Local	3
B. Hist 110 U.S. History 1492-1877	3
OR	
Hist 120 U.S. History 1877-Present	(3)
C. <i>Select One:</i>	3
Hist 130 or 140 Western Civ	(3)
Geog 221 Regions and Nations	(3)
Soc 155 Phys Anthropology & Archeology	(3)
Soc 110 Sociology	(3)
Psy 100 General Psychology	(3)
Econ 180 American Economic System**	(3)
Total for Area 4	9 Hours

Total Core Curriculum Hours 42 Hours

*Occasionally, selected courses may be substituted for this area.
 **See degree requirements listed in the Catalog for courses that are substituted for specific majors.

Associate Degree Requirements

Associate of Arts Degree

- A. Credit Hours** – A minimum of 64 semester hours must be completed.
- B. Residence** – The last 15 semester hours must be completed in residence at Missouri Southern.
- C. Grade Point Average** – Minimum cumulative and major field grade point average must be 2.0.
- D. Major Field** – The student must meet the course requirements of the particular preprofessional program selected. Or, the degree may consist of the general education courses plus additional hours, adding up to 64, as approved by the adviser and the Vice President for Academic Affairs.
- E. Core Curriculum Requirements** – The degree requires completion of the following Core Curriculum requirements:

	Credit Hours Required
Area 1. Basic Requirements*	
A. <i>English Composition</i>	6
Freshman year (Eng 101 and Eng 102	
OR achievement in the required	
competency level can be done in	
Eng 111 in 3 hours)	
B. <i>Comm 100 Oral Communication**</i>	3
C. <i>Mathematics (Math 110 or above)**</i>	3
D. <i>Physical Education</i>	3
HPER 103 Lifetime Wellness**	(2)
HPER 101 Physical Activity**	(1)
Total for Area 1	15 Hours

Associate of Science Degree

- A. Credit Hours** – A minimum of 64 hours must be completed.
- B. Residence** – The last 15 semester hours must be completed in residence at Missouri Southern.
- C. Grade Point Average** – The minimum cumulative and major field grade point average must be 2.0.
- D. Major Field** – The student must meet the course requirements in the particular program of study as approved by an adviser.
- E. Core Curriculum Requirements** – The degree requires completion of the Core Curriculum courses as well as those outlined in the student's major field of study. The Core Curriculum required courses are:

Area 1. Basic Requirements*

A. <i>Eng 101 English Composition</i>	Credit Hours Required	3
B. <i>Comm 100 Oral Communication**</i>		3
C. <i>Math 30 (or above)**</i>		3
D. <i>Physical Education**</i>		3
HPER 103 Lifetime Wellness**	(2)	
HPER 101 Physical Activity**	(1)	
Total for Area 1		12 Hours

Area 2. Humanities and Fine Arts*

A. <i>Select One:</i>		3
Art 110 Art Appreciation	(3)	
Mus 110 Music Appreciation	(3)	
Th 110 Theatre Appreciation	(3)	
Any literature except 325	(3)	
Phil 201 Introduction to Philosophy	(3)	
Total for Area 2		3 Hours

Area 3. Natural Science*

A. <i>Bio 101 General Biology**</i>	4
B. <i>Phy 100 Fundamentals of Physical Science**</i>	5
Total for Area 3	4-5 Hours

Area 4. Social and Behavioral Sciences*

A. <i>Select One:</i>		3
PSc 120 Gov't: U.S., State, Local	(3)	
Hist 110 OR Hist 120 United States History	(3)	
B. <i>Select One:</i>		3
Psy 100 General Psychology	(3)	
Soc 110 Introduction to Sociology	(3)	
Econ 180 American Economic System**	(3)	
Total for Area 4		6 Hours

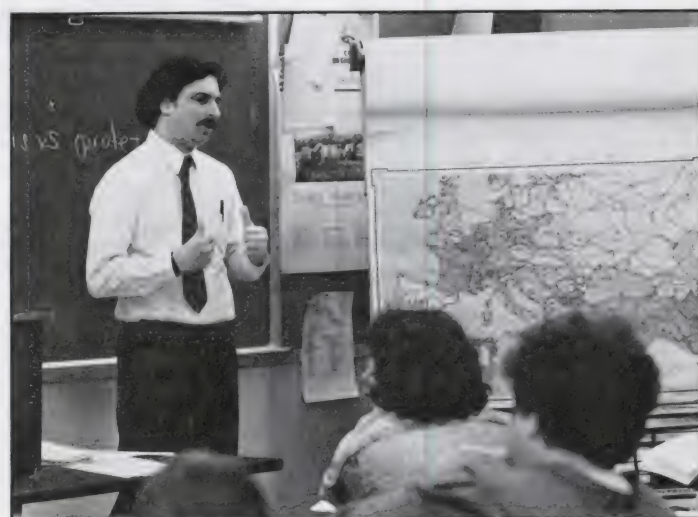
Total Core Curriculum Requirements 25-26 Hours

*Occasionally, selected courses may be substituted for this area.

**See degree requirements listed in the Catalog for courses that are substituted for specific majors.

Core Curriculum courses required for the associate of science degree typically do not completely fulfill the Core Curriculum requirements for the baccalaureate degree.

When the curriculum requirement for an associate of science degree specifies a different course in the discipline than those listed above, the specified course may meet the Core Curriculum requirements for that degree.



A Bachelor of General Studies (B.G.S.) Degree

The B.G.S. degree is a viable alternative for a few individuals who may wish thorough preparation for a career in a specific field. To pursue this option the student should consult with the Registrar regarding the degree.

Academic Minor

Selected departments have developed an academic minor that in conjunction with the major strengthens the students' vocational preparation. See each department for details.

Special Requirements

Physical Education Requirements

All students are required to satisfactorily complete 3 hours of physical education before they are permitted to graduate. Currently, students must complete HPER 101, Physical Activity and HPER 103, Lifetime Wellness.

Students should take these courses during the freshman and sophomore years. Students who meet the following conditions may be exempt from all or part of this requirement:

- A. Students who transfer from colleges where physical education is not taught will be exempt from the requirements as follows: (1) students transferring less than 15 semester hours will not be exempt from any of the requirements; (2) students transferring 15 to 60 semester hours will be exempt from one hour of physical education.
- B. Upon presentation of proper documentation to the Registrar, a veteran may petition for exemption from physical education.

State Legislation Requirement

Sections 10373, 10374, 10374a, 10374b, 10374c (S.C.S. for S.B.4) of the Laws of Missouri, 1947 (6th General Assembly), prescribe that all candidates for a degree issued by the colleges and universities of Missouri must have completed courses of instruction in and "satisfactorily passed an examination on the provisions and principles of the Constitution of the United States and of the State of Missouri, and in American History, including the study of American Institutions."

Students may comply with the law (1) by completing courses embracing the subject matter specified by the law and receiving credit therein, preferably before admission to senior college work, or (2) by certification of the completion of such requirements in another collegiate institution.

All students who have completed the Core Curriculum Requirements meet the requirements of Missouri law. Out-of-state students who do not complete their general education at Missouri Southern must pass a special examination on the Missouri Constitution.

School Laws of Missouri, 1974, require that persons cannot be granted a certificate or license to teach in the public schools of Missouri unless they have satisfactorily completed a course of two or more semester hours in the psychology or education of the exceptional child. This requirement can be met by taking Psy 302.

38 / General Regulations

Commencement Requirements

Degrees are conferred only at scheduled commencement exercises. If a student completes requirements for a degree after a commencement date, the degree will be granted at the next scheduled commencement. A certified statement of completion of graduation requirements may be obtained at the Registrar's Office. No student will be permitted to participate in the commencement exercise whose name does not appear on the commencement program. A student ready for graduation must be present at commencement in order to receive a degree. However, a candidate may graduate in absentia with the permission of the Vice President for Academic Affairs.

General Regulations

Classification of Students

A. *By Class:*

Freshman: 0-29 Hours

Sophomore: 30-59 Hours

Junior: 60-89 Hours

Senior: 90 and above

Special Admission: See page 32

B. *Postgraduate:*

Persons having completed a baccalaureate degree but taking courses for the purpose of teacher certification, job preparation and additional degree or personal profit.

C. *Full-time:*

A student enrolled for 12 or more semester hours.

D. *Part-time:*

A student enrolled in 11 or less semester hours.

Concurrent Enrollment

A student who is enrolled in residence at Missouri Southern and who desires to earn credit concurrently at another institution or through correspondence extension, advanced standing examination or USAFI examinations must secure advanced approval from the Vice President for Academic Affairs. Exceptions: Armed Forces personnel will be granted 60 days from the date of their first enrollment to establish, through USAFI examinations, advanced standing in subject matter which they mastered while in the Armed Forces.

Second Baccalaureate Degree

A student may receive a second baccalaureate degree after completing the first degree and all the requirements of the second degree. (Exception: Students may not count the professional education courses of the first degree as electives toward the second degree.) The "Residency" does apply.

Transcript Below "C" Average

Students who are accepted with a below "C" transcript and who are below the minimum standards for progress will be placed on Academic Probation. Missouri Southern accepts all grades from any equally accredited institution including both "D's" and "F's."

Maximum Credit Hour Load

To enroll in more than 18 semester hours during a semester or in more than nine hours during a summer session, a student, with the exception of music majors, must obtain prior written permission from the school dean. Music majors may carry as many as 20 semester hours without permission from their dean.

Late Enrollment

No student will be permitted to enroll in a regular semester after the first week of classes and or after the third day of classes in a summer session. Any student enrolling after classes begin will pay a late enrollment fee.

Withdrawal from College

A student who wishes to withdraw will initiate withdrawal in the Office of Counseling and Testing (114 Hearnes Hall). A student who completely withdraws from the College prior to the last week of classes in a regular or summer semester may receive a grade of "W" in all courses in which the student is enrolled. Withdrawal from the College after that date will result in a grade of "F" being recorded for all courses, unless other arrangements are made through the Office of the Registrar. A student who leaves school without officially withdrawing shall receive grades of "F" in all courses.

Dropping Courses

A student may initiate the dropping of a course in the Registrar's Office. Deadlines and grades cited in the College Catalog apply.

Adding Courses

A student may add a course in the Registrar's Office, but only upon the approval of an adviser. A fee of \$5.00 will be charged each time a student changes the program not at the request of the College. No course may be added after the first week of classes in a regular semester and after the third day of classes in the summer session.

Class Attendance

Faculty members keep records of attendance in all regularly scheduled courses at Missouri Southern.

The primary objective of student and professor is the student's attainment of course goals. It is recognized that students who achieve those objectives are normally those who attend class regularly. The professor, when giving a final semester grade, bases his/her evaluation on how well the student has achieved the course goals.



In the event that a student misses any class for ten (10) consecutive working days, the faculty member will report this in writing to the Office of Financial Aid.

Missouri Southern may discontinue the enrollment of any student for non-attendance.

Students who miss a class do so at their own risk and must assume the responsibility for work missed because of class absences. Professors are willing to assist students whose absences are caused by valid illnesses, college approved activities, and extenuating circumstances. The professor may require whatever evidence is needed to support the reason for absence.

The attendance record is significant to the total record and is useful in guidance and counseling. When absences are excessive, the professor will report the fact to Student Services and they will in turn counsel with the student. The total number of student absences in a class will be reported to the Registrar's Office along with the final grade at the end of the semester.

Students should be aware that absence from class invariably has a built-in penalty of lower academic achievement. Excessive absences usually result in failure to achieve the course goals.

Grades and Grading Policies

Grading System

A student's grade is officially recorded by letter. At Missouri Southern, the following grades and their numerical equivalents are used:

Grade		Grade Points
A	Outstanding	4
B	Above Average	3
C	Average	2
D	Minimum Passing	1
F	Failing	0
W	Withdrawal	

The current policy for the "W" grade is as follows:

- Course withdrawals will be permitted through the first week of the semester without any grade recorded.
- Course withdrawal during the second through the ninth week of the semester will be indicated by a "W" posted to the record.
- Course withdrawals are not permitted after the ninth week of the regular semester (or its equivalent). Exceptions to this policy are infrequent and must be pursued by means of academic petition. A student who stops attending class without officially withdrawing is in jeopardy of receiving an "F" in the course.

Incomplete (I) A grade of "I" may be reported if a student is unable to complete the work of the course within the semester for a valid reason such as illness, death in the family, an emergency, etc. It is not intended as a substitute for an "F" and does not entitle a student to attend the class during a subsequent semester. An incomplete must be made up by the end of the next semester (excluding summers) or it will be converted to an "F" automatically. Both credit and grade points for that course are suspended until the incomplete is converted to either a passing grade or an "F."

Audit (AU) A student may audit a class for no grade and no credit. Acceptable performance, attitude and attendance as determined by the professor are expected. Regular fees and enrollment procedures are required. A student may not change enrollment from audit

to credit nor from credit to audit. An audit means only that a student registered for the course. It does not imply any level of proficiency or knowledge.

Change of Grade

A change is initiated by the faculty member by filing a Change of Grade form with the Registrar. No change of grade is to be made without good cause. Exceptional cases will be reviewed by the (immediate supervisor), school dean and Vice President for Academic Affairs.

Independent Study

Independent study courses are special courses which may be taken by outstanding students at the discretion of the faculty adviser and the appropriate college officials. Students may enroll in independent study courses for a total of three hours on the associate degree and a total of six hours on the baccalaureate degree providing they:

- have completed:
 - Associate Degree - 30 hours
 - Baccalaureate Degree - 90 hours
- have a minimum cumulative 3.00 GPA
- have permission of the adviser, department head and the school dean in the area of independent study.

Independent study is designed for the individual who desires to explore a topic more completely than can be done in a regular course offering. Substituting independent study for a regular course is seldom done.

Posting of Grades

College legal counsel advises that the public posting of a student's name and grade, or student number and grade, without the student's approval, is a violation of the Buckley Amendment (Family Educational Rights and Privacy Act of 1974) which does not allow disclosure of recorded data or information without the individual's written consent.

Official Transcript

An official transcript of the student's academic record bears the Registrar's signature and the College seal. Missouri Southern assumes no responsibility for the accuracy of a transcript after it leaves the Registrar's Office.

Up to two weeks must be allowed after the close of a semester for the issuance of an up-to-date transcript. The transcript request must be made in writing. Each student is entitled to two (2) free transcripts. Additional copies cost \$1.00 each. No transcript will be issued unless all bills at Missouri Southern are paid or are current according to agreement with the Business Office.

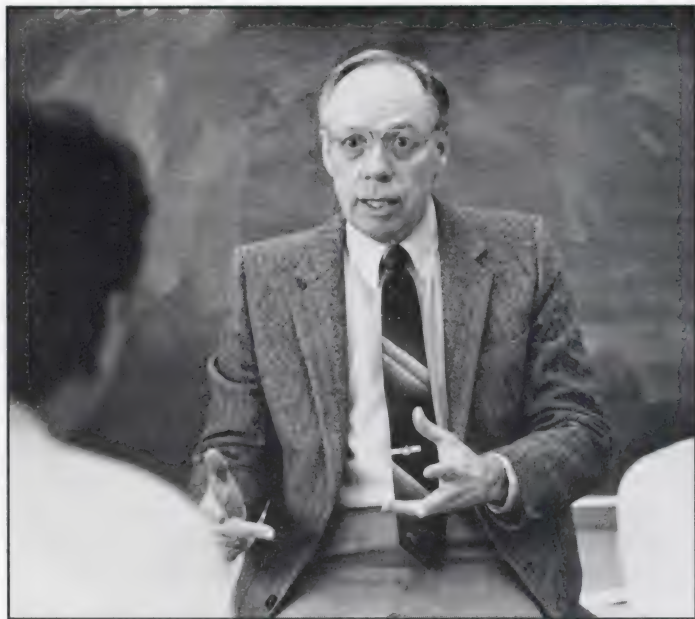
Academic Standards

Good Standing and Eligibility

Students enrolled at Missouri Southern are in good academic standing when they meet the normal progress toward graduation as described below. Those falling below the prescribed norm will be placed on academic probation. Persons failing to achieve normal progress toward graduation during the probationary period are subject to academic suspension.

Exception: Students receiving financial aid. See page 22.

40 / General Regulations



Those students competing in intercollegiate athletics or in organizations representing the College off campus shall be required to satisfy minimum standards of progress, as indicated below, following the completion of the first academic year in order to maintain future eligibility in these programs.

Academic Bankruptcy

A student may petition the Academic Policies Committee to request one semester of academic work be disregarded in computing the academic record. To be eligible for petitioning, a student must be currently enrolled, in good standing and must document the unusual conditions which justify the petition. The petition may be initiated in the Registrar's Office.

Academic Bankruptcy can never be used as a means of obtaining academic honors or athletic eligibility. Academic Bankruptcy will not remove grades from the student's permanent record. It merely allows one semester of recorded work to be eliminated in computing the student's scholastic average.

Developmental Courses

Occasionally, scores obtained from the placement tests indicate a student may not be successful in college. The College reserves the right to require these students to take precollege courses in mathematics, language arts and reading prior to participation in regular college classes.

Standards of Progress Toward Graduation*

A student's cumulative grade point average (GPA) is used to evaluate progress. If the grade point average falls below the minimum standards of progress, the work is considered unsatisfactory.

Progress toward a degree is computed on the following grade point averages:

A. For Associate Degree

<i>Hours Attempted</i>	<i>Grade Point Average</i>
1 - 22 semester hours	1.6
23 - 33 semester hours	1.7
34 - 44 semester hours	1.8
45 - 55 semester hours	1.9
56 & Above	2.0

B. For Baccalaureate Degree

<i>Hours Attempted</i>	<i>Grade Point Average</i>
1 - 22 semester hours	1.5
23 - 44 semester hours	1.6
45 - 66 semester hours	1.7
67 - 88 semester hours	1.8
89 - 110 semester hours	1.9
111 & Above	2.0

*Students who receive financial aid must comply with federal standards. The above may not reflect those standards.

Academic Probation, Suspension and Reinstatement

Each student should consider a grade point average of less than 2.0 as a warning. Those falling below the standards of progress toward graduation will be placed on academic probation. If the grade point average is not raised to the minimum standard of progress during the probationary semester, the student is subject to immediate academic suspension from the College.

A student receiving academic suspension must stay out of Missouri Southern for one semester. Re-entry may be denied by the Vice President for Academic Affairs if the student cannot present evidence that indicates a high probability of academic success.

Repetition of Courses

Students may repeat courses in which grades "F, D, C, or B" have been earned. When a course is repeated, the first grade will not be removed from the record, but the latest grade will be used computing grade point averages.

298-498 Classes

Classes numbered 298 or 498 may not be counted toward Core Curriculum credit.

Honor Roll

An Honors or Dean's List, issued at the end of each semester, contains the names of full-time students who have a 3.75 grade point average or higher with no "I" grade or a grade below "C."

Graduation Honors

In recognition of superior scholarships, the College awards honors to associate degree and baccalaureate degree graduates. Honors listed below are not earned until courses are completed, graded and posted on the students' permanent record.

Associate Degree - The student must have completed a minimum one half of the hours required for the degree in residence at Missouri Southern State College. The cumulative grade point average required to receive:

First Honors	3.90-
Second Honors	3.80-3.89
Third Honors	3.70-3.79

Baccalaureate Degree - Eligibility for any one of the following three honors requires the candidate to study all the junior and senior years at Missouri Southern and earn a minimum of 60 hours of credit:

Summa Cum Laude	3.90-
Magna Cum Laude	3.80-3.89
Cum Laude	3.70-3.79

Course Numbers and Levels

Course Numbers:

- 0 - 99 Applicable toward the associate degree only
- 100 - 199 Primarily for freshmen
- 200 - 299 Primarily for sophomores
- 300 - 399 Primarily for juniors
- 400 - 499 Primarily for seniors

Normally, courses numbered 100-299 are considered junior or lower division level courses and those numbering 300-499 are senior or upper division level courses. There are more significant distinctions between the sophomore and junior years than within the levels of the lower and upper divisions.

The student should check the catalog description of the course to see whether the second semester of a sequence course makes the first semester a prerequisite.

Freshmen are not allowed to take any course above the 200 level unless qualified by advanced placement tests. The exception is infrequent.

All courses offered are listed in the catalog. Immediately following each course title is a letter abbreviation of the semester in which the course is usually offered. Students and faculty should use this as a guide in considering future enrollment. However, this should not be interpreted as a contract. Missouri Southern reserves the right to deviate from this commitment when enrollment or other factors dictate.

Major or Area of Interest

All students will be required to declare their degree sought, their major (or area of interest), their status (regular or other) and whether they will attend part-time or full-time.

Revised Standards for Veteran's Educational Benefits

The Revised Standards for Veteran's Educational Benefits as adopted by the State Board of Education on February 17, 1977, are available in the Veteran's Affairs Office. Each Veteran should see the veteran counselor or veterans representative regarding these policies.

Any exceptions to the regulations above must receive written approval from the Vice President for Academic Affairs.

Special Policies for Financial Aid Recipients

Special policies and regulations governing financial aid recipients are filed in the Financial Aid Office, the Business Office and the Office of the Vice President for Student Services.

Catalog Time Limit

A candidate for a degree may use, as a basis for degree requirements, the general catalog issued for any year following the date of the candidate's first registration at MSSC provided it is not more than five years prior to the date the degree is to be conferred. The candidate must have been in residence at MSSC during the year of the catalog selected.

Transfer Student: The MSSC catalog in effect at the time of the transfer student's initial enrollment in the sending institution (transfer school), will govern the transfer student's degree requirements. The transfer student must have had continuous enrollment and remain in the same degree program. The catalog used may not be dated more than five years prior to the date the degree is to be conferred. The transfer student must have been enrolled in a previous school during the year of the catalog selected.

The degree requirements in the 1993-95 Catalog became effective June 1, 1993.



The background of the page is a black and white photograph of a forest path. The path is narrow and leads into the distance, flanked by trees and foliage. The lighting creates a dappled effect on the ground. On the right side of the page, there is a white rectangular box with a thin black border. Inside this box, the text is centered and lists various academic disciplines. The title 'School of Arts & Sciences' is at the top, followed by a horizontal line, and then a list of disciplines from 'Art' to 'Theatre'.

School of Arts & Sciences

Art

Biology

Chemistry

Communications

English

Foreign Languages

Geography

Geology

History

Mathematics

Music

Paralegal

Philosophy

Physics

Political Science

Social Science

Sociology

Theatre

School of Arts & Sciences

School Dean

Ray A. Malzahn
Hearnes Hall 318, 625-9385

Degrees and Majors

Bachelor of Arts

Art
Communications
Chemistry
English
History
Music
Political Science
Sociology
Spanish
Theatre

Bachelor of Science

Biology
Chemistry
Mathematics
Physics
Sociology

Bachelor of Science in Education

Art
Biology
Chemistry
English
Mathematics
Music
Physics
Social Studies
Spanish
Speech-Theatre

Options and Emphases

Art (B.A.)
Studio Art
Graphic Communications
Communications (B.A.)
Speech Communications
Mass Communications
Mathematics (B.S.)
Mathematics
Computational Mathematics
Music (B.S.E.)
Double Certification
Instrumental
Vocal
Social Studies (B.S.E.)
History
Political Science
Sociology

Minors:

See Departments

Role

Consisting of seven departments and 13 major disciplines, the School of Arts and Sciences has two primary roles. One is to provide the foundation of all higher education called the liberal arts component or Core Curriculum. The other is to educate students for professional careers and for graduate school. The Core Curriculum at Missouri Southern is designed to meet the needs of the individual and of society, needs which include communicating, critical thinking, clarifying values, functioning within social institutions, using science and technology and using the arts.

Scope

The School of Arts and Sciences has three principal responsibilities: teaching, research and creative activities and community service.

Quality teaching, the first responsibility, is essential to sound academic programs. Consequently, teaching is important to liberal arts and is the major role of the faculty. In the School of Arts and Sciences, the faculty strive to educate students both deeply within a discipline and widely across disciplines; deeply, to help them achieve excellence and widely, to help them develop a lifelong habit of self education and thus readily adapt to change.

The second responsibility of the School of Arts and Sciences is scholarly research and creative activity. The aim of scholarly research is both improvement of teaching and advancement of knowledge. The aim of creative activity and performance is to enrich the participant's understanding and proficiency both as a teacher and as an artist and to enhance the cultural opportunities of the community.

The third responsibility of the School of Arts and Sciences, one which is closely related to the first two, is community service as an academic and cultural resource. The School functions as an academic resource by consulting and providing academic expertise to help solve community problems. It functions as a cultural resource by presenting to the public films, arts exhibitions, dramatic productions, musical concerts and recitals.

Art

Art Building 303, 625-9563

Faculty Bray - Head, Christensen, Fowler, Hess, Noblett, Schwieger

Career opportunities available for the qualified bachelor of arts degree graduates are in commercial art, free-lance and private studio lessons. This degree also prepares the graduate to enter an advanced degree program on the masters level in a specific art discipline. Graduates with a bachelor of science in education degree with a major in art are certified through the teacher education program to teach K-12 in the state of Missouri.

Degree requirements in the four art programs - B.A. (studio emphasis); B.A. (graphic communications); B.S.E. (one of two teaching fields); B.S.E. (single teaching field) - are such that it is extremely important that students majoring in art meet with their faculty advisers each semester. Students are responsible for contacting their adviser after completing 21 semester hours in art to make application for their Junior Review. For this review, students are required to submit a representative sampling of their creative work, a record of academic progress and a statement of intent and/or objectives for examination by a committee of the art faculty. Written permission of the Junior Review Committee is required for a student to enroll in Art 490 Senior Exhibit. The committee meets at the beginning of each fall and spring semester. Entering transfer students must make application for the review during their first semester. Application forms and more detailed information are available in the department of art office, 303 Art Building.

Core Curriculum requirement for non-art majors, for one course in Area 2, Humanities and Fine Arts, is fulfilled by Art 110, Art Appreciation.

Bachelor of Arts with a Major in Art

Emphasis I

Studio Art

Semester Hours

Core Requirements (p.35)	51
Computer Literacy Requirement (determined by art department)	2-3
Foreign Language (four courses in one language)	12
Art Requirements	53
Art 101 Basic Design	3
Art 105 Design & Color Theory	3
Art 120 Beginning Ceramics	3
Art 130 Beginning Drawing	3
Art 211 Beginning Sculpture*	3
Art 205 Beginning Jewelry*	3
OR	
Art 230 Basic Form*	3
Art 232 Beginning Painting*	3
Art Art History or Seminar (upper division)	9
Art 312 Beginning Printmaking*	3
Art 490 Senior Exhibit*	2
Art Electives (300 - 400 level courses)	18
Electives	9-10
	128**

*See Prerequisites

**Must include at least 40 upper division (300 - 400 level) hours.

Bachelor of Arts with a Major in Art

Emphasis II Graphic Communications

Semester Hours

Core Requirements (p.35)	51
Computer Literacy Requirement-determined by art department	1-3
Foreign Language (four courses in one language)	12
Art Requirements	50
Art 101 Basic Design	3
Art 105 Design & Color Theory	3
Art 130 Beginning Drawing	3
Art 205 Beginning Jewelry*	3
OR	
Art 230 Basic Form*	3
Art 240 Typography and Lettering	3
Art Art History or Seminar (upper division)	9
Art 300 Advanced Drawing*	3
OR	
Art 421 Life Drawing*	3
Art 310 Watercolor*	3
Art 312 Beginning Printmaking*	3
Art 325 Graphic Communications I*	3
Art 350 Graphic Communications II*	3
Art 425 Graphic Communications III*3	

Art 430 Advanced Printmaking	3
Art 450 Graphic Communications IV*	3
Art 490 Senior Exhibit*	2
Electives**	9-10

Additional Requirement:

CJAd 210 Basic Photography	3
	128***

****Suggested Elective Courses:**

Art 120 Beginning Ceramics	3
Art 232 Beginning Painting	3
Art 205 Beginning Jewelry	3
Art 230 Basic Form	3
Art 211 Beginning Sculpture	3
Art 421 Life Drawing	3
CADD 115 Introductory to CADD	3
GB 320 Business Communications	3
CJAd 340 Basic Color Photography	3
MM 300 Principles of Marketing	3
MM 401 Promotional Strategy	3
Comp 105 Intro to Micro Use****	3
Comp 115 Programming in BASIC****	3

*See Prerequisites

***Must include at least 40 upper division (300-400 level) hours.

****Satisfies departmental computer literacy requirement (select one).

Bachelor of Science in Education with a Major in Art

Grades K-12 Certification Plan B

Single Teaching Field

Semester Hours

Core Requirements (p. 35) 51*	48
Art Requirements	49
Art 101 Basic Design	3
Art 105 Design & Color Theory	3
OR	
Art 230 Basic Form**	3
Art 120 Beginning Ceramics	3
Art 130 Beginning Drawing	3
Art 200 Arts & Crafts	3
Art 211 Beginning Sculpture**	3
Art 220 Art Education	2
Art 232 Beginning Painting**	3
Art 312 Beginning Printmaking**	3
Art Art History	9
Art 490 Senior Exhibit	2
Art Electives	12

Education Certification Requirements (p.115-127)

40-41

137-138

*Psy 100 satisfies certification requirements and 3 hours of the Core Curriculum. Area 3C

**See Prerequisites included with course descriptions.

Minor in Art

Semester Hours

Art 101 Basic Design	3
Art 110 Art Appreciation	
OR	
Art Art History	3
Art 120 Beginning Ceramics	3
Art 130 Beginning Drawing	3
Art 211 Beginning Sculpture*	3
OR	
Art 205 Beginning Jewelry*	3
OR	
Art 230 Basic Form*	3
Art 232 Beginning Painting*	3
OR	
Art 310 Watercolor*	3
Art 312 Beginning Printmaking*	3
	21

*See Prerequisites included with course descriptions.

Bachelor of Science in Education with a Major in Art

Grades K-12 Certification

Plan A One of Two Teaching Fields

Semester Hours

Core Requirements (p.35) 51*	48
Art Requirements	41
Art 101 Basic Design	3
Art 105 Design & Color Theory	3
Art 120 Beginning Ceramics	3
Art 130 Beginning Drawing	3
Art 200 Arts & Crafts	3
Art 211 Beginning Sculpture**	3
Art 220 Art Education	2
Art 230 Basic Form**	3
Art 232 Beginning Painting**	3
Art 312 Beginning Printmaking**	3
Art Art History (upper division)	9
Art Electives	3
Second Teaching Field (some fields exceed 30 hours)	30
Education Certification Requirements (p.115-127)	40-41
	159-160***

*Psy 100 satisfies certification requirements and 3 hours of the Core Curriculum. Area 3C

**See Prerequisites included with course descriptions

*** (Varies with 2nd field)

46 / Art

Suggested Order of Study

Bachelor of Arts

Major Code 1002

Art Major

Emphasis I: Studio Art

Freshman Year

1st Semester		Hours
Course		
Art 101	Basic Design	3
Art 130	Beginning Drawing	3
CORE	[Eng 101 Comp I]	3
CORE	[Math 110 Intro to Col Math]	3
CORE	[Hist 110 U.S. History]	3
CORE	[HPER 103 Lifetm Wellness]	2
		17

2nd Semester

Art 105	Design & Color Theory	3
Art 120	Beginning Ceramics	3
CORE	[Eng 102 Comp II]	3
CORE	[Comm 100 Oral Comm]	3
CORE	[Hist 120 U.S. History]	3
CORE	[HPER 101 Physical Activity]	1
		16

Sophomore Year

1st Semester		
Art 205	Beginning Jewelry*	
OR		
Art 230	Basic Form*	3
Art 232	Beginning Painting*	3
CORE	[Bio 101 General Biology]	4
CORE	[Comp 105 Comp Literacy]	3
Art Electives	approved by the adviser***	3
		16

2nd Semester

Art 110	Art Appreciation	3
Art 211	Beginning Sculpture*	3
CORE	[Phys 100 Fund of Phys Sci]	5
CORE	[Soc 110 Intro to Sociology]	3
Art	Electives***	3
		17

Junior Year

1st Semester		
Foreign Language		3
CORE	[Mus 110 Music Apprec]	
OR		
CORE	[Th 110 Theatre Apprec]	3
Comm 305	Intercultural Comm	
OR		
Soc 342	Comparative Cultures	
OR		
GB 310	International Business	3
Art	Electives***	6
		15

2nd Semester

Art	Art History**	3
Art 312	Beginning Printmaking*	3
Foreign Language		3
CORE	[PSc 120 Gov't U.S./Sta/Loc]	3
Art	Elective***	3
		15

Senior Year

1st Semester		
Art	Art History**	3
Art 490	Senior Exhibit*	2
CORE	[Eng 281/282 American Lit]	3
Art	Electives***	3
CORE	[Econ 180 Amer Econ Sys]	3
Foreign Language		3
		17

2nd Semester		
Art	Art History**	3
Art	Electives***	6
Electives	Approved by the adviser***	6
	Foreign Language	3
		18

*See Prerequisites

**9 hours required—select from Art 301, 302, 303 or 304 Art History

***Select from 300 or 400 level courses

[Department Recommendations]

Bachelor of Arts

Major Code 1002

Art Major

Emphasis II: Graphic Communications

Freshman Year

1st Semester		Hours
Course		
Art 101	Basic Design	3
Art 130	Beginning Drawing	3
CORE	[Eng 101 Comp I]	3
CORE	[Math 110 Intro to Col Math]	3
CORE	[Hist 110 U.S. History]	3
CORE	[HPER 103 Lifetm Wellness]	2
CORE	[Psy 120 College Orient]	1
		18

2nd Semester

Art 105	Design & Color Theory	3
CJAd 210	Basic Photography	3
CORE	[Eng 102 Comp II]	3
CORE	[Comm 100 Oral Comm]	3
CORE	[Hist 120 U.S. History]	3
CORE	[HPER 101 Physical Activity]	1
		16

Sophomore Year

1st Semester		
Art 205	Beginning Jewelry*	
OR		
Art 320	Basic Form*	3
Art 240	Typography & Lettering	3
Elective	[GB 105 Typewriting]	3
CORE	[Bio 101 General Biology]	4
CORE	[Eng 271/272 English Lit]	3
		16

2nd Semester

Art 300	Advanced Drawing*	
OR		
Art 412	Life Drawing*	3
Art 310	Watercolor*	3
Elective	[Art 232 Beg Painting]*	
OR		
Elective	[Art 211 Beg Sculpture]*	3
CORE	[Phys 100 Phys Sci]	5
CORE	[Eng 281/282 American Lit]	3
		17

Junior Year

1st Semester		
Art 110	Art Appreciation	3
Art 312	Beginning Printmaking*	3
Art 325	Graphic Comm I*	3
Foreign Language		3
Comm 305	Intercultural Comm	
OR		
Soc 342	Comparative Cultures	
OR		
GB 310	International Business	3
		15

2nd Semester		
Art	Art History**	3
Art 430	Advanced Printmaking*	3
Art 350	Graphic Comm II*	3
Foreign Language		3
CORE	[Soc 110 Intro to Sociology]	3
		15

Senior Year

1st Semester		
Art	Art History**	3
Art 490	Senior Exhibit*	2
Art 425	Graphic Comm III*	3
CORE	[PSc 120 Gov't U.S./Sta/Loc]	3
Elective	[MM 300 Prin of Marketing]	3
Foreign Language		3
		17

2nd Semester

Art	Art History**	3
Art 450	Graphic Comm IV* ***	3
CORE	[Econ 180 Amer Econ Sys]	3
Elective	[Bus 320 Bus Comm]	
OR		
Elective	[MM 401 Promo Strategy]*	3
CJAd 340	Basic Color Photography	3
Foreign Language		3
		18

* See Prerequisites

**9 hours required—select from Art 301, 302, 303 or 304 Art History

***Satisfies departmental requirement for a computer application course.

[Department Recommendations]

Bachelor of Science in Education

Major Code 0831

Art Major (Plan B)

Single Teaching Field

Grades K-12 Certification

Freshman Year

1st Semester		Hours
Course		
Educ 100	Orientation to Educ I	1
Psy 100	General Psychology	3
Art 101	Basic Design	3
CORE	[Eng 101 Comp II]	3
CORE	[Math 110 Intro to Col Math]	3
CORE	[HPER 103 Lifetm Wellness]	2
CORE	[Psy 120 College Orient]	1
		16

2nd Semester

Art 110	Art Appreciation	3
Art 130	Beginning Drawing	3
Art 105	Design & Color Theory	
OR		
Art 230	Basic Form*	3
CORE	[Comm 100 Oral Comm]	3
CORE	[Eng 102 Comp II]	3
CORE	[HPER 101 Physical Activity]	1
Psy 305	Developmental Psychology	3
		19

Sophomore Year

1st Semester

Take C-Base test.

Educ 200	Orientation to Educ II	1
Art 200	Arts & Crafts	3
Art 220	Art Education	2
Art	Elective	3
CORE	[Bio 101 General Biology]	4
CORE	[Hist 110 U.S. History]	3
CORE	[PSc 120 Gov't: U.S./Sta/Loc]	3
		19

2nd Semester

Apply for admission to Teacher Education.

Educ/Psy 302	The Exceptional Child	2
Educ 401	Computer Software***	2
If computer literacy requirement is not met in the specialty department.		
Art 211	Beginning Sculpture*	3
Art 232	Beginning Painting*	3
CORE	[Eng 281/282 American Lit]	3
CORE	[Phys 100 Fund of Phys Sci]	5
		18

Junior Year

1st Semester

Pass media competencies.

Psy 310	Educational Psychology	2
Educ 329	Ped Theo Meth & Prac	4
Educ 321	Microteaching	2
Educ 423	Classroom Management	2
Note: See Ed 420 below****		
Art	Art History**	3
Comm 305	Intercultural Comm	
OR		
Soc 342	Comparative Cultures	
OR		
GB 310	International Business	3
		16

2nd Semester

Educ 422	Tch Reading in the Sec Sch	2
Art 120	Beginning Ceramics	3
Art	Art History**	3
Art 312	Beginning Printmaking*	3
Art	Elective	3
CORE	[Econ 180 Amer Econ Sys]	3
		17

Senior Year

1st Semester

Apply for student teaching. All course work must be completed except for professional semester courses.

Art	Art History**	3
Art 490	Senior Exhibit*	2
Art	Elective	6
CORE	[Eng 271/272 English Lit]	3
CORE	[Hist 120 U.S. History]	3
		17

2nd Semester

Educ 337	Tchng Art in the Sec Sch	2
Educ 402	Foundations of Educ	2
Educ 432	Critical Issues	2
Select one:		
Educ 412	Indivi Curri Dev (2)	
OR		
Educ 420	Intro to Counseling**** (3)	
OR		
Psy 412	Meas & Eval (2)	2-3
Educ 464	Student Teaching K-12	8
		16-17

*See Prerequisites

**9 hrs. required—select from Art 301, 302, 303 or 304 Art History

***Satisfies departmental requirement for a computer application course.

****Offered at night only. Must be taken the semester prior to student teaching.

[Departmental Recommendations]

After accumulating 21 hrs. in art, students must make application for their Junior Review via their adviser.

Consult catalog for requirement for Plan A (Art instruction/certification for one of two teaching fields).

For additional information contact:

Mr. Jim Bray
Office: Art Building 303
Phone: 625-9563

Biology

Reynolds Hall 210, 625-9376

Faculty Messick - Head, Adams, Gibson, Jackson, Lawson, Prentice, Schlink, Stebbins, Tillman

Biology, biology education and environmental health technology majors take a required core of fundamental courses. Requirements to complete these majors allow students to specialize and prepare for graduate school, professional school or specific careers. Support courses in mathematics and the physical sciences supplement courses in the major.

The biology department offers Bio 101, General Biology, to satisfy the Core Curriculum requirement of a biological science course with a laboratory. Bio 121, General Zoology, satisfies the biological science requirement for students in nursing and certain other majors.

Bachelor of Science with a Major in Biology

Semester Hours

Core Requirements (p. 35) 51* 39

Computer Literacy Requirement determined by biology department 2-3

Biology Requirements 40

Bio 101	General Biology	4
Bio 112	Botanical Survey**	3
Bio 122	Zoological Survey**	3
Bio 210	Molecular & Cellular Biology**	4
Bio 231	General & Medical Microbiology**	5
Bio 305	Genetics**	4
Bio 490	Seminar**	1
Bio	Upper Division Botany Elective**	3-4
Bio	Upper Division Zoology Elective**	4-5
Bio	Upper Division Environmental Elective**	4
Bio	Electives	3-5

Supporting Requirements 25

Math 140	Algebra and Trig**	
OR		
Math 150	Calculus with Analytic Geometry I**	5
Chem 101	General Chemistry I**	5
Chem 102	General Chemistry II**	5
Chem 300	Intro to Modern Organic Chemistry**	

OR

Chem 301	Organic Chemistry I**	5
Phys 151	Elem College Physics I**	5

Electives 21-22
128***

*Required courses in biology, chemistry, mathematics and physics satisfy major requirements and 12 hours of the Core Curriculum.

**See Prerequisites

***Must include at least 40 upper division (300 - 400 level) hrs.

Biology majors satisfy the Writing Intensive (WI) requirement by completing Eng 101 and 102 (or their equivalent) and three WI classes. Two of the three must be upper division and at least one of the two must be in the major.

Preprofessional students should take Chem 302 and Phys 152. Preveterinary medicine majors must complete Bio 261 Animal Nutrition and Chem 351 Biochemistry.

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Bachelor of Science in Education with a Major in Biology

Grades 7-12 Certification

Plan A One of Two Teaching Fields

See: Minors-Biology Education

Bachelor of Science in Education with a Major in Biology

Grades 7-12 Certification

Plan B Single Teaching Field

Semester Hours

Core Requirements (p. 35) 51* 36

Computer Literacy Requirement - determined by biology department 2-3

Biology Requirements 35

Bio 101 General Biology 4

Bio 112 Botanical Survey** 3

Bio 122 Zoological Survey** 3

Bio 231 General & Medical Microbiology** 5

Bio 305 Genetics** 4

Bio 306 Human Physiology and Anatomy** 5

Bio Upper Division Biology

Electives (Bio 499 Problems in Biology

2-4 hrs. and Bio 312 Environ

mental Biology or Bio 402

Ecology or Bio 481 Aquatic

Ecology 4 hrs. are required

for certification) 11

Supporting Requirements 32-33

Math 140 Algebra and Trig** 5

Chem 101 General Chemistry I** 5

Chem 102 General Chemistry II** 5

Chem 300 Intro to Modern

Organic Chemistry**

OR

Chem 301 Organic Chemistry I** 5

Phys 151 Elem College Physics I** 5

Geol 110 Intro to Geology (5)

OR

Geol 300 Environmental

Geology (4) 5-4

Phys 180 Intro to Meteorology 3

Education Certification Requirements

(p. 115-127) 39-41

144-148

Environmental Health Technology

See page 148.

Minors in Biology

Minor in Biology

(botany-horticulture emphasis)

Semester Hours

Chem 100 Introductory Chemistry 5

Bio 101 General Biology 4

Bio 112 Botanical Survey* 3

Bio 316 Economic Botany* 3

Bio 271 Prin of Plant Propagation* 3

Bio 440 Plant Pathology* 4

Bio 322 Taxonomy of Flowering

Plants* 4

Bio 332 Intro to Entomology* 3

Bio 499 Problems in Biology (1-3)*

OR

Bio 450 Internship in

Biology (1-8)* 1-8

30-37

Minor in Biology (biology education) Grades 7-9 Certification

Bio 101 General Biology 4

Bio 112 Botanical Survey* 3

Bio 122 Zoological Survey* 3

Bio 231 General and Medical

Microbiology* 5

Bio 305 Genetics* 4

Bio 306 Human Physiology

and Anatomy* 5

Bio 499 Problems in Biology* 2

26

Completion of the biology education minor plus the following courses will qualify the student for certification in biology for grades 7-12 and is Plan A for the bachelor of science in education:

Math 140 Algebra and Trig* 5

Chem 101 General Chemistry I* 5

Phys 151 Elem College Physics I* 5

Bio 312 Environmental Biology*

OR

Bio 402 General Ecology*

OR

Bio 481 Aquatic Ecology* 4

Geol 110 Intro to Geology (5)

OR

Geol 300 Environmental

Geology (4) 4-5

Phys 180 Intro to Meteorology

26-27

*See prerequisites.

Biology majors satisfy the Writing Intensive (WI) requirement by completing Eng 101 and 102 (or their equivalent) and three WI classes. Two of the three must be upper division and at least one of the two must be in the major.

Suggested Order of Study

Bachelor of Science

Major Code 0401

Biology Major

Freshman Year

1st Semester

Course Hours

Bio 101 General Biology 4

CORE [Eng 101 Comp I] 3

CORE [HPER 101 Physical Activity] 1

CORE [Hist 110 U.S. History] 3

CORE [Humanities and Fine Arts] 3

Psy 120 College Orientation 1

15

*Required courses in biology, chemistry, mathematics, physics and psychology satisfy major requirements and 15 hrs. of the Core Curriculum.

**See Prerequisites

Biology majors satisfy the Writing Intensive (WI) requirement by completing Eng 101 and 102 (or their equivalent) and three WI classes. Two of the three must be upper division and at least one of the two must be in the major.

2nd Semester		
Bio 122	Zoological Survey (Bio 101)	3
Math 140	Algebra and Trig	5
CORE	[Eng 102 Comp II]	3
CORE	[Comm 100 Oral Comm]	3
CORE	[PSc 120 Gov't: U.S./Sta/Loc]	3
		17

Sophomore Year

1st Semester		
Bio 12	Botanical Survey (Bio 101)	3
Bio 231	Gen & Med Micro (Bio 101)	5
Chem 101	Gen Chemistry I (Math 140)	5
CORE	[Econ 180 Amer Econ Sys]	3
		16

2nd Semester		
Bio 305	Genetics (Bio 101)	4
Bio 210	Molecular & Cellular Bio (Bio 112, 122, Chem 102)	4
Chem 102	Gen Chem II (Chem 101)	5
Bio 303	Comp App in Bio (consent)	
OR		
Approved computing course		2-3
		15-16

Junior Year

1st Semester		
Bio 331	Compar Verte Anat (Bio 122)	5
Chem 301	Org Chemistry I (Chem 102)	5
Phys 151	Elem Col Phys I (Math 140)	5
CORE	[International Cultural Stu]	3
		18

2nd Semester		
Bio 431	Animal Physiology (Bio 331)	
OR		
Bio 33	Histology (Bio 112, 122)	
OR		
Bio 462	Embryology (Bio 331)	4-5
Bio 322	Plant Taxonomy	4
CORE	[Humanities and Fine Arts]	3
CORE	[Humanities and Fine Arts]	3
CORE	[Hist 320 U.S. 1877-Present]	3
		17-18

Senior Year

1st Semester		
Bio 362	Virology (Bio 231, 305)	4
Bio 371	Plant Phys (Bio 112, 210)	4
Bio 490	Seminar (consent)	1
Bio	Electives	2
CORE	[Behavioral Science]	3
CORE	[HPER 103 Lifetm Wellness]	2
		16

2nd Semester		
Bio 402	Ecology (Bio 112, 122)	
OR		
Bio 481	Aquatic Ecology (Bio 122)	4
Bio 456	Immunology (Bio 231, 305)	4
Bio	Electives	9
		17

[Department Recommendations]
(Prerequisites)

Program must satisfy Writing Intensive requirements. (See p. 35)

For additional information contact:
Dr. John Messick
Office: Reynolds Hall 215
Phone: 625-9617

Bachelor of Science in Education

Major Code 0840

Biology Major (Plan B) Grades 7-12 Certification Single Teaching Field

Freshman Year

1st Semester		
Course		Hours
Bio 101	General Biology	4
CORE	[Eng 101 Comp I]	3
CORE	[Hist 110 U.S. 1877-Pres]	3
Educ 100	Orientation to Education	1
Psy 100	General Psychology	3
CORE	[Comm 100 Oral Comm]	3
Psy 120	College Orientation	1
		18

2nd Semester		
Bio 122	Zoology Survey (Bio 101)	3
CORE	[Eng 102 Comp II]	3
CORE	[Humanities and Fine Arts]	3
Math 140	Algebra & Trig	5
Psy 301	Adolescent Psychology	3
		17

Sophomore Year

1st Semester		
<i>Take C-Base Test.</i>		
Bio 112	Botanical Survey (Bio 101)	3
Chem 101	Gen Chem I	
CORE	(Math 130 or Math 140)	5
CORE	[PSc 120 Gov't: U.S./Sta/Loc]	3
CORE	[HPER 101 Physical Activity]	1
Educ 200	Orientation to Education II	1
Phys 151	Elem Col Phys I (Math 140)	5
		18

2nd Semester		
<i>Apply for admission to teacher education.</i>		
Bio 211	Gen & Med Micro (Bio 101)	5
Bio 305	Genetics (Bio 101)	4
Bio 303	Comp App in Bio (consent)	
OR		
Educ 401	Computer Software	
OR		
Approved computing course		2-3
Chem 102	Gen Chem II (Chem 101)	5
Educ 302	[Psy 302] The Excep Child	2
		18-19

Summer Semester		
CORE	[Humanities and Fine Arts]	3

Junior Year

1st Semester		
<i>Pass Media Competencies.</i>		
Chem 300	Intro to Modern Organic Chem (Chem 102)	
OR		
Chem 301	Org Chem I (Chem 102)	5
Educ 329	Ped Theo, Meth & Prac	4
Educ 321	Microteaching	2
Educ 423	Classroom Management	2
CORE	[HPER 103 Lifetm Wellness]	2
Psy 310	Education Psychology	2
		17

2nd Semester		
Bio 402	General Ecology (Bio 112, 122)	
OR		
Bio 481	Aquatic Ecology	4
Bio	Electives	5
CORE	[Humanities and Fine Arts]	3
CORE	[Hist 320 U.S. 1877-Present]	3
Educ 422	Tchng Rdng in Sec School	2
		17

Senior Year

1st Semester
Apply for student teaching. All course work must be completed except for Professional Semester courses.

Bio 306	Human Physiology & Anatomy (Bio 121 or consent)	5
Bio 499	Problems in Biology	2
Bio	Electives	5
CORE	[Econ 180 Amer Econ Sys]	3
CORE	[International Cultural Stud]	3
		18

2nd Semester		
Educ 333	Tching Sci in Sec Sch	3
Educ 402	Foundations of Education	2
Educ 432	Critical Issues	2
Select One:		
Educ 412	Indivi Curr Development (2)	
OR		
Educ 420	Intro to Counseling* (3)	
OR		
Psy 412	Meas & Eval (2)	2-3
Educ 462	Stu Tchng in Sec School	8
		17-18

*Offered at night only. Must be taken prior to student teaching.
(Prerequisites)
[Department Recommendations] -not necessarily in this order

Program must satisfy Writing Intensive requirements. (See page 35).

For additional information contact:
Mr. Michael A. Lawson
Office: Reynolds Hall 311
Phone: 625-9730

Premedicine

Major Code 7005

Predentistry

Major Code 7002

Preveterinary

Major Code 7005

This program will also qualify the student for the bachelor of science in biology, major code 0401.

Freshman Year

1st Semester		
Course		Hours
Bio 101	General Biology	4
Chem 101	Gen Chem I (Math 140)	5
Math 140	Algebra & Trig	
OR		
Math 150	Calc w/Analytic Geom	5
CORE	[HPER 101 Physical Activity]	1
Psy 120	College Orientation	1
		16

50 / Biology

2nd Semester

Bio 122	Zoological Survey (Bio 101)	3
Chem 102	Gen Chem II (Chem 101)	5
CORE	[Psy 100 Gen Psychology]	3
CORE	[Eng 101 Comp I]	3
		14

Summer Semester

CORE	[Comm 100 Oral Comm]	3
CORE	[Humanities and Fine Arts]	3
		6

Sophomore Year

1st Semester

Bio 112	Botanical Survey (Bio 101)	3
Bio 231	Gen & Med Micro (Bio 101)	5
Phys 151	Elem Col Phys I (Math 140)	5
CORE	[HPER 103 Lifetm Wellness]	2
CORE	[Eng 102 Comp II]	3
		18

2nd Semester

Bio 305	Genetics (Bio 101)	4
Phys 152	Elem Physics II (Phys 151)	3
Bio 303	Comp App in Bio (consent)	
OR		
Approved computing class		2-3
Bio 210	Molecular & Cellular Bio (Bio 112, 122, Chem 102)	4
CORE	[Humanities and Fine Arts]	3
		16-17

Summer Semester

CORE	[Humanities and Fine Arts]	3
CORE	[Hist 110 U.S. 1877-Present]	3
		6

Junior Year

1st Semester

Bio 331	Compar Anatomy (Bio 122)	5
Chem 301	Org Chem I (Chem 102)	5
CORE	[Econ 180 Amer Econ Sys]	3
Bio 362	Virology (Bio 231, 305)	4
		17

2nd Semester

Bio 456	Immunology (Bio 231, 305)	3
Chem 302	Org Chem II (Chem 301)	5
Bio 462	Embryology (Bio 331)	5
		13

Senior Year

1st Semester

Bio 316	Economic Botany (Bio 112)	3
Bio 431	Animal Physi (Bio 331) (5)	
OR		
Bio 433	Histology (Bio 112, 122) (4)	5-4
Bio 490	Seminar (consent)	1
Chem 201	Analy Chem I (Chem 102)	5
		13-14

2nd Semester

Bio 402	Gen Ecology (Bio 112, 122)	4
CORE	[International Cultural Stud]	3
CORE	[Hist 320 U.S. 1877-Present]	3
CORE	[PSc 120 Gov't: U.S./Sta/Loc]	3
Math 310	Elem Statistics (Math 130)	3
		16

*Preveterinary students also must enroll in Bio 261 Animal Nutrition and Chem 351 Biochemistry prior to acceptance at the University of Missouri Veterinary School. Chem 300 Intro to Modern

Organic Chemistry can replace Chem 301 Organic Chemistry I and Chem 302 Organic Chemistry II.

Students also should check with the premedicine adviser about specific professional schools. Individual schools may have other specific requirements.

Program must satisfy Writing Intensive requirements. (See page 35).

[Department Recommendations]
(Prerequisites)

For additional information contact:
Dr. Vonnie R. Prentice (Premedicine)
Office: Reynolds Hall 320
Phone: 625-9539

Dr. Gerald Schlink (Preveterinary)
Office: Reynolds Hall 313B
Phone: 625-9764

Mr. David Tillman (Predental)
Office: Reynolds Hall 317D
Phone: 625-9698

Preoptometry

Major Code 7006

This program also will qualify the student for the bachelor of science in biology.

Freshman Year

1st Semester

Course		Hours
Bio 101	General Biology*	4
Chem 101	Gen ChemI (Math 140)*	5
Math 140	Algebra & Trig	5
Psy 120	College Orientation	1
CORE	[HPER 101 Physical Activity]	1
		16

2nd Semester

Bio 122	Zoological Survey (Bio 101)	3
Chem 102	Gen Chem II (Chem 101)*	5
CORE	[Eng 101 Comp I]*	3
CORE	[Psy 100 Gen Psychology]*	3
CORE	[Comm 100 Oral Comm]*	3
		17

Sophomore Year

1st Semester

Bio 112	Botanical Survey (Bio 101)*	3
Bio 305	Genetics (Bio 101)	4
CORE	[Eng 102 Comp II]*	3
Math 150	Calc w/Analy Geomtry (Math 140)*	5
CORE	[HPER 103 Lifetm Wellness]	2
		17

2nd Semester

Bio 231	Gen & Medi Micro (Bio 101)	5
Bio 210	Molecular & Cellular Bio (Bio 112, 122, Chem 102)*	4
Bio 303	Comp App in Bio (consent)	
OR		
Approved computing class		2-3
CORE	[Econ 180 Amer Econ Sys]	3
CORE	[Hist 110 U.S. 1877-Present]*	3
		17-18

Summer Semester

Phys 151	Elem Col Phys I (Math 140)*	5
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Junior Year

1st Semester

Chem 301	Org Chem I (Chem 102)*	5
Bio 331	Comparative Anatomy	5
Bio 433	Histology (Bio 112, 122)	4
Psy 300	Child Development	
OR		
Psy 301	Adolescent Psychology	3
		17

2nd Semester

Phys 152	Elem Col Phys II (Phys 151)*	3
Chem 302	Org Chem II (Chem 301)	5
Bio 456	Immunology (Bio 231, 305)	4
Math 310	Elem Statistics*	3
CORE	[Humanities and Fine Arts]	3
		18

Senior Year

1st Semester

Bio 316	Economic Botany (Bio 112)	3
Bio 431	Animal Physiology (Bio 331)	5
Bio 490	Seminar	1
CORE	[International Cultural Stud]	3
CORE	[Hist 320 U.S. 1877-Present]	3
CORE	[PSc 120 Gov't: U.S./Sta/Loc]	3
		18

2nd Semester

Bio 402	General Ecology (Bio 112, 122)	
OR		
Bio 481	Aquatic Ecology (Bio 122)	4
Bio 306	Human Phys & Anat (Bio 121 or consent)	5
Electives		3
CORE	[Humanities and Fine Arts]	6
		18

*Indicates courses which satisfy minimum requirements for admission into Optometry School. Application may be made with 90 semester hours. Strong preference is given to applicants who hold the bachelor's degree.

[Department Recommendations]
(Prerequisites)

Program must satisfy Writing Intensive requirements. (See page 35).

For additional information contact:
Dr. E. Sam Gibson (Preoptometry)
Office: Reynolds Hall 317C
Phone: 625-9699

Prephysical Therapy

Major Code 7003

For transfer to University of Missouri-Columbia.

Freshman Year

1st Semester

Course		Hours
CORE	[Eng 101 Comp I]	3
Math 140	Algebra & Trig	5
Bio 121	General Zoology	
OR		
Bio 101	General Biology	4
CORE	[Psy 100 Gen Psychology]	3

Psy 120 College Orientation 1
16

2nd Semester

CORE [Eng 102 Comp II] 3
Psy 311 Applied Statistics-Behavioral
& Natural Science 3
CORE [PSc 120 Gov't: U.S./Sta/Loc] 3
Chem 101 Gen Chem I (Math 140) 5
CORE [Comm 100 Oral Comm] 3
17

Summer Semester

Bio 231 Gen & Med Micro
(Bio 101 or 121)
OR
Bio 306 Human Phys & Anatomy
(Bio 121 or consent) 5

Sophomore Year

1st Semester
Phys 151 Elem College Physics 5
Psy 221 Psych of Per Adjustment 3
CORE [Humanities and Fine Arts] 3
Chem 102 Gen Chem II (Chem 101) 5
HPER 103 [Lifetm Wellness] 2
18

2nd Semester

Bio 210 Molecular & Cellular Bio
(Bio 101 or 121, Chem 102) 4
CORE [Humanities and Fine Arts] 6
CORE [HPER 101 Physical Activity] 1
Phys 152 Elem Col Phys II (Phys 151) 3
Soc Sci Elective 3
17

Residents of Missouri usually apply for admission to the Physical Therapy School, University of Missouri-Columbia or other physical therapy schools within the state. Residents of other states should consult with Mr. Tillman, department of biology, as individual schools of physical therapy may require different prerequisites. Completion of the above course does not automatically admit an applicant into the physical therapy program at the University of Missouri.

[Department Recommendations]
(Prerequisites)

For additional information contact:
Mr. David Tillman
Office: Reynolds Hall 317D
Phone: 625-9698

Preagriculture Major Code 7001

Prepharmacy Major Code 7007

Preagriculture and prepharmacy programs at Missouri Southern are designed to match the plans of individual students. See page 75.

For additional information contact:
Dr. Gerald Schlink (Preagriculture)
Office: Reynolds Hall 313B
Phone: 625-9764

Dr. John Messick (Prepharmacy)
Office: Reynolds Hall 215
Phone: 625-9617

Chemistry

Reynolds Hall 210, 625-9376

Faculty Baiamonte - Head, Albright, Kash, Malzahn, Mosher, Whittle

Chemistry graduates will find an impressive array of options and exciting opportunities in fields such as basic research, environmental protection, instrumentation, new product and process development, technical marketing, market research, forensic chemistry, teaching at all levels and information science. Moreover, an education in chemistry is valuable in health sciences such as medicine, pharmacology, clinical chemistry and industrial hygiene. The first step into a future in chemistry is a formal education. Since chemistry is such a broad field and holds diverse career opportunities, students should plan their education with a goal in mind.

Bachelor of Arts with a Major in Chemistry

Semester Hours
Core Requirements (p.35) 51* 43
Foreign Language (four courses in one language) 12
Chemistry Requirements 28
Chem 101 General Chemistry I** 5
Chem 102 General Chemistry II** 5
Chem 201 Analytical Chemistry I** 5
Chem 300 Intro to Modern Organic Chemistry (5 hrs.) and Upper Division Chemistry Electives (8 hrs.)excluding Chem 301 and Chem 302** 13
OR
Chem 301 Organic Chemistry I (5 hrs.), Chem 302 Organic Chemistry II (5 hrs.), Upper Division Chem Electives (3 hrs.) excluding Chem 300** 13

Supporting Requirements 16
Phys 151 Elementary College Physics I** 5
Phys 152 Elementary College Physics II** 3
Math 150 Calculus with Analytic Geom I** 5
Comp 110 Programming I OR
Higher level computer course 3
Electives 29
128***

*Required chemistry, physics and mathematics courses satisfy major requirements and 8 hours of the Core Curriculum.

**See Prerequisites

***Must include at least 40 upper division (300 - 400 level) hours.

Note: A bachelor of arts degree in chemistry is for students who need some knowledge of chemistry as a basis for work in other fields but who do not expect to become professional chemists.

Bachelor of Science with a Major in Chemistry

Semester Hours
Core Requirements (p. 35) 51* 43
Chemistry Requirements 33
Chem 101 General Chemistry I** 5
Chem 102 General Chemistry II** 5
Chem 201 Analytical Chemistry I** 5
Chem 301 Organic Chemistry I** 5
Chem 302 Organic Chemistry II** 5
Chem 401 Physical Chemistry I** 4
Chem 402 Physical Chemistry II** 4
Supporting Requirements 23
Phys 250 General Physics I** 5
Phys 260 General Physics II** 5
Math 150 Calculus with Analytic Geometry I** 5
Math 250 Calculus with Analytic Geometry II** 5
Comp 110 Programming I OR
Higher level computer course 3
Electives* 29**
128****

*Required chemistry, physics and mathematics courses satisfy major requirements and 8 hours of the Core Curriculum.

**See Prerequisites

***Suggested Electives (Chem 421, Chem 422, Chem 472, Math 260, Math 322, Phys 372, Phys 341)

****Must include at least 40 upper division (300 - 400 level) hours.

Bachelor of Science in Education with a Major in Chemistry

**Grades K-12 Certification
Plan A One of Two Teaching Fields**

Semester Hours
Core Requirements (p. 35) 51* 36
Chemistry Requirements 27
Chem 101 General Chemistry I** 5
Chem 102 General Chemistry II** 5
Chem 201 Analytical Chemistry I** 5
Chem 301 Organic Chemistry I** 5
Chem 302 Organic Chemistry II** 5
Chem 496 Problems in Chemistry 2

52 / Chemistry

Supporting Requirements

Phys 151	Elementary College Physics I**	5
Math 140	Algebra & Trigonometry**	5
Geol 300	Environmental Geology	4
Bio 101	General Biology	4
Comp 110	Programming I (in place of Educ 401)	
OR		
Higher level computer course		3
Education Certification Requirements (p. 35)		39
Second Teaching Field (some fields exceed 30 hours)		30
		153***

*Required chemistry, physics, mathematics, psychology and biology courses satisfy major requirements and 15 hours of the Core Curriculum.

**See Prerequisites

***Varies with 2nd field)

Bachelor of Science in Education with a Major in Chemistry

Grades 7-12 Certification

Plan B Single Teaching Field

		Semester Hours
Core Requirements (p. 35) 51*		36
Chemistry Requirements		35

Chem 101	General Chemistry I**	5
Chem 102	General Chemistry II**	5
Chem 201	Analytical Chemistry I**	5
Chem 301	Organic Chemistry I**	5
Chem 302	Organic Chemistry II**	5
Chem 351	Biochemistry**	4
Chem 401	Physical Chemistry I**	4
Chem 496	Problems in Chemistry	2

Supporting Requirements

Phys 250	General Physics I**	5
Phys 260	General Physics II**	5
Math 150	Calculus with Analytical Geometry I**	5
Math 250	Calculus with Analytical Geometry II**	5
Geol 300	Environmental Geology	4
Bio 101	General Biology*	4
Comp 110	Programming I (in place of Educ 401)	

OR		
Higher level computer course		3
Education Certification Requirements (p. 115-127)		39
		141

*Required chemistry, physics, mathematics, psychology and biology courses satisfy major requirements and 15 hours of the Core Curriculum.

**See Prerequisites

Minor in Chemistry

		Semester Hours
Chem 101	General Chemistry I*	5
Chem 102	General Chemistry II*	5
Chem 201	Analytical Chemistry I*	5
Chem 300 or 301	(Organic Chemistry)*	5

*See Prerequisites

Suggested Order of Study

Bachelor of Arts

Major Code 1905

Chemistry Major

Freshman Year

1st Semester		Hours
Course		
Chem 101	Gen Chem I (Algebra & Trig)	5
Math 150	Calculus I	5
CORE	[Eng 101 Comp I]	3
CORE	[HPER 103 Lifetrn Wellness]	2
Psy 120	College Orientation	1
		16

2nd Semester

Chem 102	Gen Chem II (Chem 101)	5
CORE	[Eng 102 Comp II]	3
CORE	[Hist 110 U.S. History]	3
Electives	(Sec area of concentration)	3
Comp 110	Programming I	3
		17

Sophomore Year

1st Semester		Hours
Chem 301	Org Chem I* (Chem 102)	5
OR		
Chem 201	Analy Chem I (Chem 102)	5
Phys 151	Elem Col Phys I (Math 140)	5
CORE	[HPER 101 Physical Activity]	1
Electives	(Sec area of concentration)	5
		16

2nd Semester

Chem 302	Org Chem II* (Chem 301)	5
OR		
Chem 300	Intro to Modern Organic Chemistry (Chem 102)	5
Phys 152	Elem Col Phys II (Phys 151)	5
CORE	[PSc 120 Gov't: U.S./Sta/Loc]	3
Electives	(Sec area of concentration)	5
		18

Junior Year

1st Semester		Hours
Chem 201	Analy Chem I (Chem 102)	5
OR		
Chem	[Upper Division Elective]	4-5
Foreign Language		3
CORE	[Comm 100 Oral Comm]	3
CORE	[Humanities and Fine Arts]	3
CORE	[Econ 180 Amer Econ Sys]	3
		16-17

2nd Semester

Chem	[Upper Division Elective]	4
Foreign Language		3
CORE	[Psy 100 or Soc 110]	3
CORE	[Bio 101 General Biology]	4
CORE	[Humanities and Fine Arts]	3
		17

Senior Year

1st Semester		Hours
CORE	[Humanities and Fine Arts]	3
Foreign Language		3
CORE	[International Cultural Stu]	3
Electives		6
		15

2nd Semester

Foreign Language		3
CORE	[Hist 120 or 320 U.S. Hist]	3
Electives		6-7
		12-13

Student may elect either Chem 300 plus 8 hours of upper division chemistry (excluding Chem 301 and Chem 302) or Chem 301 and Chem 302 plus 3 hours of upper division chemistry electives (excluding Chem 300).

(Prerequisites)

[Department Recommendations]

For additional information contact:

Dr. Vernon Baiamonte

Office: Reynolds Hall 213

Phone: 625-9541

Bachelor of Science

Major Code 1905

Chemistry Major

Freshman Year

1st Semester		Hours
Course		
Chem 101	Gen Chem I (Algebra & Trig)	5
Math 150	Calculus I	5
CORE	[Eng 101 Comp I]	3
Comp 110	Programming I	3
Psy 120	College Orientation	1
		17

2nd Semester

Chem 102	Gen Chem II (Chem 101)	5
Math 250	Calculus II (Math 150)	5
CORE	[Eng 102 Comp II]	3
CORE	[HPER 101 Physical Activity]	1
CORE	[Psy 100 or Soc 110]	3
		17

Sophomore Year

1st Semester		Hours
Chem 301	Org Chemistry I (Chem 102)	5
Phys 250	General Physics (Math 150)	5
Elective	[Math 260 Calc III] (Math 250)	5
CORE	[PSc 120 Gov't: U.S./Sta/Loc]	3
		18

2nd Semester

Chem 302	Org Chem (Chem 301)	5
Phys 260	Gen Physics II (Phys 250)	5
Elective	[Math 322 Differential Equations] (Math 260)	3
CORE	[Econ 180 Amer Econ Sys]	3
		16

Junior Year

1st Semester

Chem 401	Phys Chem I (Math 250, Phys 260)	
OR		
Elective	[Chem 422 Adv Inorg Chem] 4 (Chem 102, Math 250)	
Chem 201	Analy Chem I (Chem 102)	5
CORE	[Comm 100 Oral Comm]	3
CORE	[HPER 103 Lifetm Wellness]	2
CORE	[Hist 110 U.S. History]	3
		17

2nd Semester

Chem 402	Physical Chem II (Chem 401)	
OR		
Elective	[Chem 472 Organic Qualitative Analysis] (Chem 302)	4
Elective	[Chem 421 Analytical Chemistry II] (Chem 210)	5
CORE	[Humanities and Fine Arts]	3
CORE	[Bio 101 General Biology]	4
		16

Senior Year

1st Semester

Chem 401	Phys Chem I (Math 250, Phys 260)	
OR		
Elective	[Chem 422 Adv Inorganic Chem] 4 (Chem 102, Math 250)	
Elective	[Chem 497 Res in Chem]	1
CORE	[Humanities and Fine Arts]	3
CORE	[Hist 120 or 320 U.S. Hist]	3
CORE	[International Cultural Stu]	3
		14

2nd Semester

Chem 402	Physical Chemistry II (Chem 401)	
OR		
Elective	[Chem 472 Org Qualitative Analysis] (Chem 302)	4
Elective	[Chem 497 Res in Chem]	2
Elective	[Phys 372 Electronic Circuits] (Phys 260)	4
CORE	[Humanities and Fine Arts]	3
		13

(Prerequisites)

[Department Recommendations]

For additional information contact:

Dr. Vernon Baiamonte
Office: Reynolds Hall 213
Phone: 625-9541

Bachelor of Science in Education

Major Code 0841

Chemistry Major

(Plan B) Single Teaching Field Grades 7-12 Certification

Freshman Year

1st Semester

Course		Hours
Chem 101	General Chemistry I (Algebra & Trig)	5
Math 150	Calculus I	5
Comp 110	Programming I	3
CORE	[Eng 101 Comp II]	3
Psy 120	College Orientation	1
Educ 100	Orientation to Education I	1
		18

2nd Semester

Chem 102	Gen Chem II (Chem 101)	5
Math 250	Calculus II (Math 150)	5
CORE	[Eng 102 Comp II]	3
Psy 100	General Psychology	3
CORE	[HPER 103 Lifetm Wellness]	2
		18

Sophomore Year

1st Semester

Take C-Base test.

Chem 301	Organic Chemistry I (Chem 102)-fall only	5
Phys 250	Gen Physics I (Math 150)	5
Bio 101	General Biology	
OR		
Geol 300	Environmental Geology-fall only	4
Educ 200	Orientation to Education II	1
		15

2nd Semester

Apply for admission to teacher education.

Chem 302	Organic Chemistry II (Chem 301)-spring only	5
Phys 260	Gen Physics II (Phys 250)	5
CORE	[PSc 120 Gov't U.S./Sta/Loc]	3
CORE	[Econ 180 Amer Econ Sys]	3
Psy 301	Adolescent Psychology	3
Educ/Psy 302	The Exceptional Child	2
		21

Junior Year

1st Semester

Chem 401	Physical Chemistry I (Math 250, Phys 260)-fall only	
OR		
Chem 351	Biochemistry (Chem 302)-fall only	4
Chem 201	Analytical Chemistry-fall only	5
Geol 300	Environ Geology-fall only	
OR		
Bio 101	General Biology	4
Psy 310	Educ Psychology (Psy 100)	2
CORE	[Humanities and Fine Arts]	3
		18

2nd Semester

Pass Media Competencies.

Chem 496	Problems in Chemistry	2
CORE	[Humanities and Fine Arts]	3
CORE	[Hist 110 U.S. History]	3
Educ 329	Ped Theo, Meth & Prac	4
Educ 321	Microteaching	2
Educ 423	Classroom Management	2
		16

Senior Year

1st Semester

Apply for student teaching. All course work must be completed except for Professional Semester Courses.

Chem 401	Physical Chemistry I (Math 250, Phys 260)-fall only	
OR		
Chem 351	Biochemistry (Chem 302)-fall only	4
CORE	[Humanities and Fine Arts]	3
CORE	[International Cultural Stu]	3
CORE	[Hist 120 or 320 U.S. Hist]	3
CORE	[HPER 101 Physical Activity]	1
CORE	[Comm 100 Oral Comm]	3
		17

2nd Semester

Educ 333	Tching Sci in Sec Sch	2
Educ 402	Foundations of Education	2
Educ 432	Critical Issues	2
Educ 462	Student Teaching Sec	8
Educ 422	Tching Rding in Sec Sch	2
Select One:		2-3
Educ 412	Indiv Curr Development (2)	
Educ 420	Intro to Counseling (3)*	
Psy 412	Meas & Eval (2)	
		18

*Must be taken prior to student teaching semester.

(Prerequisites)

[Department Recommendations]

For additional information contact:

Dr. Vernon Baiamonte
Office: Reynolds Hall 213
Phone: 625-9541

Communications

Webster Hall 353, 625-9580

Faculty Massa - Head, Bodon, Bryant, Carter, Clark, Crawford, Kumbier, Merriam, Moorman, Morris, Peterson, Policarpo, Stebbins, Yocum

A major in communications offers an array of career opportunities in such fields as public communication, television, radio and journalism. In the education process, emphasis is placed on speaking and writing skills as well as gaining technical knowledge related to mass media production and publication. A major in communications is one of the most diversified areas of study available to students who wish to excel in business, industry, government or education at the local, state, national and international levels. Missouri Southern graduates in communications have found successful careers in the media, in government, in education and in a variety of public relations positions for hospitals, state and national associations, in retailing and in industry.

Students pursuing a bachelor of arts degree in communications have two options. Option I, speech communication, examines the role of human communication in social, organizational, political and cultural interactions. This option places a balanced focus on the theory and practice of communicating. Special emphasis includes identifying the antecedents of communication, its form and content and its consequences. Option II, mass communications, offers students the necessary abilities in planning, preparing and producing programs in electronic media and/or designing and writing for journalism. This

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option emphasizes the technical skills, creativity and demand for understanding target audiences in mass media. Students gain hands-on experience in television, radio and print laboratories, each outfitted with state-of-the-art equipment. Also available is a bachelor of science degree in education with a teaching emphasis in speech communication and theatre.

The communications department oversees the student operations of Missouri Southern Television with its cable service MSTV and its community station K57DR, in addition to the available media training through PBS-affiliated KOZJ in Joplin. The department also manages KXMS, a 24-hour-a-day classical radio station operated by students and community volunteers. Perhaps the most widely recognized contribution of the communications department is *The Chart*, a student operated college newspaper published once a week. Additionally, the department publishes the *Crossroads* yearbook.

Students also have opportunities to participate in other communications sponsored activities. The debate and forensics program offers students the chance to develop their critical thinking skills and to participate in events such as informative, persuasive and extemporaneous speaking competitions. Debate and forensics students may join the forensic honor society of Pi Kappa Delta. Communications majors interested in mass media may join Southern's chapter of the national broadcast fraternity of Alpha Epsilon Rho and participate in its state, regional and national conventions. The department also sponsors the Modern Communications Club which plans on-campus events and off-campus field trips for students interested in communications activities. The club expands the scope of communications to include foreign language speakers.

Internships are encouraged for communications majors. These internships allow students to gain work experience in occupational positions they may wish to pursue. Students work under the joint supervision of a faculty member and a representative of the organization providing the intern experience. The communications curriculum acknowledges the diversity and interconnectedness among peoples, promotes an understanding of human values and prepares its students for leadership in a competitive world.

Core Curriculum requirements for all students of the College include Comm 100, Oral Communication.

Bachelor of Arts with a Major in Communications Option I: Speech Communication

	Semester Hours
Core Requirements (p. 35)	51
Computer Literacy Requirement:	
Comp 105 Intro to Microc Use	3
Foreign Language (four courses in one language)	12**
Communications Requirements	47
Comm 101 Introduction to Human Communication	3
Comm 131 Voice and Diction	3
Comm 215 Interpersonal Communication*	3
Comm 300 Organizational Communication*	3
Comm 411 Political and Social Communication*	3
Comm 420 Mass Communications Theory*	3
Comm 492 Communication Issues*	3
Communication Electives	26
Electives	15
	128***

*See Prerequisites

**A proficiency level of "Intermediate Plus" is required.

***Must include at least 40 upper-division (300-400 level) hours.

Bachelor of Arts with a Major in Communications

	Semester Hours
Option II: Mass Communications	
Core Requirements (p. 35)	51
Computer Literacy Requirement:	
Comp 105 Intro to Microc Use	3
Foreign Language (four courses in one language)	12**
Communications Requirements	47
Comm 101 Intro to Human Communication	3
Comm 111 Newswriting	3
Comm 215 Interpersonal Communication	3
Comm 220 Practicum in Communications*	2
(Student must select two different activities.)	
Comm 310 Communication Law	3
Comm 325 Broadcast News Reporting*	3
Comm 330 Advanced Communications Practicum*	1
Comm 420 Mass Communications Theory*	3
Comm 492 Communication Issues*	3
Communication Electives	23
Electives	15
	128***

*See Prerequisites

**A proficiency level of "Intermediate Plus" is required.

***Must include at least 40 upper division (300 - 400 level) hours. Courses numbered 300 and above in history, political science, sociology, business and psychology are recommended.

Bachelor of Science in Education with a Major in Speech Communication and Theatre

	Semester Hours
Grades 7-12 Certification Plan B	48
Core Requirements (p. 35) 51*	
Computer Literacy Requirement:	
Educ 401 Use of Computer Software in the Classroom	2
Communications Requirements	12
Comm 101 Intro to Human Communication	3
Comm 215 Interpersonal Communication**	3
Comm 304 Small Group Communication**	3
Comm 315 Argumentation and Debate**	3
Theatre Requirements	17
Th 121, 122, 221, or 222—	
Theatre Laboratory	2
Th 142 Theatre Technology	3
Th 212 Oral Interpretation	3
Th 241 Acting I	3
Th 331 History of Theatre (WI)	
OR	
Th 332 History of Theatre	3
Th 351 Directing**	3
Electives in Communications and/or Theatre	11***
Electives	3
Education Certification Requirements (p.115-127) 40-41****	38-39
	131-132

*Required course in psychology counts 3 hours toward Core Curriculum requirements, Area 3C.

**See Prerequisites

***Must be approved in advance by the student's adviser who must be selected from either the area of speech communication or theatre.

****Two credit hours are satisfied by Educ 401.

Minor in Mass Communications

	Semester	Hours
Comm 111 Newswriting	3	
Comm 310 Communication Law	3	
Comm 325 Broadcast News Reporting	3	
Communications electives*	9	
		18

*Electives must be above the 100 level and must be chosen in consultation with an adviser from the communications department. A student may emphasize either the print or broadcast media.

Minor in Speech Communication

	Semester	Hours
Comm 100 Oral Communication*	3	
Comm 214 Interpersonal Communication	3	
Comm 304 Small Group Communication	3	
Comm 306 Persuasion	3	
Comm 307 Professional Interviewing	3	
Comm 401 Nonverbal Communication	3	
		18

This minor is designed especially for those individuals who will be entering business, industry, education or any field calling for "superior communication skills."

*Meets Core Curriculum requirement.

Suggested Order of Study

Bachelor of Arts

Major Code 0600

Communications Major Mass Communications Option Broadcast Emphasis

Freshman Year

1st Semester	Course	Hours
	Foreign Language	3
	CORE [Eng 101 Comp I]	3
	CORE [Comm 100 Oral Comm]	3
	Comm 101 Intro to Human Comm	3
	Comm 111 Newswriting	3
	Psy 120 College Orientation	1
		16

2nd Semester

	Foreign Language	3
	CORE [Eng 102 Comp II]	3
	CORE [HPER 103 Lifetm Wellness]	2
	CORE [Econ 180 Amer Econ Sys]	3
	Comm 130 Intro to Broadcasting	3
	Comm 131 Voice and Diction	3
		17

Sophomore Year

1st Semester		
	Foreign Language	3
	CORE [HPER 101 Physical Activity]	1
	CORE [Humanities and Fine Arts]	3
	Comm 215 Interpersonal Comm	3
	Comm 200 Radio Production	
	OR	
	Comm 201 TV Production	3
	Comm 220 Practicum In Comm	1
	Electives	3
		17

2nd Semester

	Foreign Language	3
	CORE [Humanities and Fine Arts]	3
	Comm 200 Radio Production	
	OR	
	Comm 201 TV Production	3
	Comm 220 Practicum in Comm	1
	CORE [Math 110 Intro to Col Math]	3
	Electives	3-5
		16-18

Junior Year

1st Semester		
	Comp 105 Intro to Micro Use	3
	CORE [Humanities and Fine Arts]	3
	CORE [Biology]	4
	Comm 320 Advanced TV Production	3
	Comm 325 Broadcast News Reporting	3
		16

2nd Semester

	CORE [Phys 100 Fund of Phys Sci]	5
	CORE [Psy 100 or Soc 110]	3
	Comm 310 Comm Law	3
	Comm 402 Broadcast Programming	3
	Comm 301 Broadcast & Cable Mgmt	3
		17

Senior Year

1st Semester		
	CORE [Hist 110 U.S. History]	3
	CORE [PSc 120 Gov't: U.S./Sta/Loc]	3
	Comm 330 Adv Comm Practicum	1
	CORE [Comm 305 Intercul Comm]	3
	Comm Elective (upper division)	3
	Elective (upper division)	3
		16

2nd Semester

	CORE [Hist 320 U.S. History]	3
	Comm 420 Mass Comm Theory	3
	Comm 492 Comm Issues	3
	Electives (upper division)	5
		14

Electives should be chosen in consultation with the adviser to meet desired career goals. Courses in history, business, political science, sociology, psychology, art and theatre all may be appropriate.

[Department Recommendations]

For additional information contact:

Mr. Richard W. Massa
Office: Webser Hall 362
Phone: 625-9372

Bachelor of Arts

Major Code 0600

Communications Major Mass Communications Option Newspaper Emphasis

Freshman Year

1st Semester	Course	Hours
	Foreign Language	3
	CORE [Eng 101 Comp I]	3
	CORE [Comm 100 Oral Comm]	3
	Comm 101 Intro to Human Comm	3
	Comm 111 Newswriting	3
	Psy 120 College Orientation	1
		16

2nd Semester

	Foreign Language	3
	CORE [Eng 102 Comp II]	3
	CORE [Math 110 Intro to Col Math]	3
	CORE [HPER 101 Physical Activity]	1
	Comm 220 Practicum in Comm	1
	Elective	3
		14

Sophomore Year

1st Semester		
	CORE [HPER 103 Lifetm Wellness]	2
	CORE [Econ 180 Amer Econ Sys]	3
	Foreign Language	3
	Comm 215 Interpersonal Comm	3
	Comm 220 Practicum in Comm	1
	Comm Electives [Comm 231 Feature Writing]	3-4
		15-16

2nd Semester

	Foreign Language	3
	CORE [Humanities and Fine Arts]	3
	CORE [Psy 100 or Soc 110]	3
	Comm Elective	3
	CORE [PSc 120 Gov't: U.S./Sta/Loc]	3
	Elective	2-3
		17-18

Junior Year

1st Semester		
	Comp 105 Intro to Micro Use	3
	CORE [Humanities and Fine Arts]	3
	CORE [Biology]	4
	Comm 325 Broadcast News Reporting	3
	Comm 330 Adv Comm Practicum	1
	Elective [upper division]	2
		16

2nd Semester

	CORE [Humanities and Fine Arts]	3
	CORE [Phys 100 Fund of Phys Sci]	5
	CORE [Hist 110 U.S. History]	3
	Comm 310 Comm Law	3
	Comm Elective (upper division)	3
		17

Senior Year

1st Semester		
	CORE [Hist 320 U.S. History]	3
	Comm Electives [upper division]	8
	Electives [upper division]	4
		15

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2nd Semester		
Comm 420	Mass Comm Theory	3
CORE	[Comm 305 Intercul Comm]	3
Comm 492	Comm Issues	3
Electives	(upper division)	4
		13

Electives in communications should be chosen in consultation with the adviser to meet desired career goals. Other electives should be chosen in an area of minor concentration or in a supportive role to career goals. Courses in history, business, political science, sociology and psychology are strongly recommended.

[Department Recommendations]

For additional information contact:
Mr. Richard W. Massa
Office: Webster Hall 362
Phone: 625-9372

Bachelor of Arts Major Code 0600 Communications Major Speech Comm Option

Freshman Year

1st Semester		
Course		Hours
Foreign Language		3
CORE	[Eng 101 Comp I]	3
CORE	[Comm 100 Oral Comm]	3
CORE	[Math 110 Intro to Col Math]	3
Psy 120	College Orientation	1
Comm 101	Intro to Human Comm	3
		16

2nd Semester		
Foreign Language		3
CORE	[Eng 102 Comp II]	3
CORE	[HPER 103 Lifetm Wellness]	2
CORE	[Econ 180 Amer Econ Sys]	3
Comm 131	Voice and Diction	3
Comm	Elective	3
		17

Sophomore Year

1st Semester		
Foreign Language		3
CORE	[HPER 101 Physical Activity]	1
CORE	[Humanities and Fine Arts]	3
Comm 215	Interpersonal Comm	3
Comm	Elective	3
Elective		3
		16

2nd Semester		
Foreign Language		3
CORE	[Humanities and Fine Arts]	3
CORE	[PSc 120 Gov't: U.S./Sta/Loc]	3
Comm	Elective	3
Electives		6
		18

Junior Year

1st Semester		
Comp 105	Intro to Micro Use	3
CORE	[Humanities and Fine Arts]	3
CORE	[Biology]	4
Comm 300	Organizational Comm	3
	Elective	3
		16

2nd Semester		
CORE	[Phys 100 Fund of Phys Sci]	5
CORE	[Psy 100 or Soc 110]	3
CORE	[Hist 110 U.S. History]	3
Comm 411	Political and Social Comm	3
Comm	Elective (upper division)	3
		17

Senior Year

1st Semester		
CORE	[Hist 320 U.S. History]	3
Comm	Electives (upper division)	9
Elective	(upper division)	3
		15

2nd Semester		
Comm 420	Mass Comm Theory	3
CORE	[Comm 305 Intercul Comm]	3
Comm	Electives (upper division)	6
Comm 492	Comm Issues	3
		15

Electives should be selected in consultation with the adviser to meet desired career goals.

[Department Recommendations]

For additional information contact:
Mr. Richard W. Massa
Office: Webster Hall 362
Phone: 625-9372

Bachelor of Science in Education Major Code 0844 Speech-Theatre Major Grades 7-12 Certification (Plan B) Single Teaching Field

Freshman Year

1st Semester		
Course		Hours
Comm 101	Intro to Human Comm	3
CORE	[Comm 100 Oral Comm]	3
CORE	[Eng 101 Comp I]	3
CORE	[Math 110 Intro to Col Math]	3
CORE	[Biology]	4
Psy 120	College Orientation	1
Educ 100	Orientation to Education	1
		18

2nd Semester		
Psy 100	General Psychology	3
Comm	Electives	6
Th 142	Theatre Technology	3
CORE	[Eng 102 Comp II]	3
CORE	[Humanities and Fine Arts]	3
		18

Sophomore Year

1st Semester		
<i>Take C-Base test.</i>		
Comm	Elective	3
Comm 215	Interpersonal Comm	3
Psy 301	Adolescent Psychology	3
Th 241	Acting I	3
CORE	[Humanities and Fine Arts]	3
CORE	[HPER 103 Lifetm Wellness]	2
Educ 200	Orientation to Education II	1
		18

2nd Semester		
<i>Apply for admission to teacher education.</i>		
Psy 310	Educational Psychology	2
Educ 302	The Exceptional Child	2
Th 212	Oral Interpretation	3
CORE	[Humanities and Fine Arts]	3
CORE	[Hist 110 U.S. History]	3
CORE	[HPER 101 Physical Activity]	1
		14

Junior Year

1st Semester		
<i>Pass media competencies.</i>		
Educ 329	Ped Theo, Meth & Prac	4
Educ 321	Microteaching Secondary	2
Educ 390	Intro to Instructional Media	2
Comm 304	Small Group Comm	3
Comm 315	Argumentation and Debate	3
Th 331	History of the Theatre	
Educ 423	Classroom Management	2
		19

2nd Semester		
CORE	[Comm 305 Intercul Comm]	3
Comm	Elective	3
CORE	[Phys 100 Fund of Phys Sci]	5
CORE	[PSc 120 Gov't: U.S./Sta/Loc]	3
CORE	[Econ 180 Amer Econ Sys]	3
Educ 422	Reading in Sec Schools	2
		19

Senior Year

1st Semester		
<i>Apply for student teaching. All course work must be completed except for Professional Semester courses.</i>		
Th 351	Directing I	3
CORE	[Hist 320 U.S. History]	3
Educ 412 or	Educ 420* or Educ 423	
	or Psy 412	2-3
Electives		9
		17-18

2nd Semester		
Educ 402	Foundations of Education	2
Educ 432	Critical Issues in Education	2
Educ 344	Teaching Speech & Theatre in Sec. Schools	2
Educ 401	Use of Comp Sftwr in Clsrm	2
Educ 462	Student Teaching	8
		16

[Department Recommendations]
*Must be taken prior to the student teaching semester.

For additional information contact:
Mr. Richard W. Massa
Office: Webster Hall 362
Phone: 625-9372

English

Hearnes Hall 300, 625-9377

Faculty Spector - Head, Ackiss, Brown, Couch, Denniston, Dworkin, Greenlee, Harder, Kumbier, Lambert, Marlowe, Morgan, Preble, Rodgers, Saltzman, Simpson, Spracklen, Walters

The department of English offers basic service courses in composition and literature for all students at the College. These courses emphasize writing and analytical skills and cultivate an appreciation of literature in all its variety. A major in English for the bachelor of arts degree has proved to be an excellent preparation for students who plan to enter business and industry, for students who plan to pursue graduate studies in English and for students who plan to enter professional schools such as law and medicine. Graduates of this program are in such widely diverse occupations as personnel relations, advertising, publishing, sales management, mass communications, and college teaching. Majors in English are expected to exhibit skills in writing, organization and creativity, and they are expected to develop a perception of and appreciation for the human values that grow out of the study of literature.

A major in English for the bachelor of science in education degree is designed for students who wish to prepare to teach English (Plan B) or English plus another field (Plan A) at the secondary level. With the need for excellence in secondary education so pressing, the English faculty work to develop in B.S.E. majors an informed enthusiasm for and dedication to teaching composition and literature so that they in turn will prepare their students well for college and for life.

A minor in English is an excellent choice for students who want supplementary training in English skills, logical thinking, and literary knowledge. Students who wish to minor in English should arrange a coherent sequence of courses in consultation with the departmental adviser for minors. Students should choose courses on the basis of their backgrounds, their major programs and, above all, their interests.

The department also offers its majors and other students opportunities to use their talents and pursue their interests through such organizations as the English Club and Sigma Tau Delta Honor Society, through publications like "The Winged Lion," and in projects like English Field Day.

Core Curriculum requirements in Humanities and Fine Arts can be met with the courses listed on page 35 under Area 2, section B and C. English 101 is a prerequisite to all courses except English 80 and 111. English 102 or 111 is a prerequisite to all 300-400 level English courses. The department urges all students to complete English 101 and 102 in their freshman year.

Bachelor of Arts with a Major in English

	Semester Hours
Core Requirements (p. 35) 51*	45
Foreign Language (four courses in one language)	12
English Requirements	42
Eng 301 Modern Grammar	
OR	
Eng 400 History of the English Language	3
One course from Eng 216, 310, 313 and 315	3
English Electives**	36
Electives	29
	128***

*Two of the English courses listed under Area 2, sections B and C on page 35 satisfy both six of the 51 hours required for the Core Curriculum and six of the 36 hours of English electives required for the major.

**Must be beyond freshman composition and include at least 12 hours at the 300-400 level. The student also will need to satisfy the computer literacy requirement as determined by the English department.

***Must include at least 40 upper division (300 - 400 level) hours.

Bachelor of Science in Education with a Major in English

Grades 7-12 Certification

Plan A One of Two Teaching Fields

	Semester Hours
Core Requirements (p. 35) 51*	42
English Requirements	33
Eng 301 Modern Grammar	3
Eng 319 Composition for Teachers	3
Eng 330 Literature for Adolescents	3
Eng 400 History of the English Language	3
Eng 216 Creative Writing	
OR	
Eng 310 Professional Writing	
OR	
Eng 313 Technical Writing	
OR	

Eng 315 Exposition	3
English Literature**	6
American Literature**	6
World Literature**	3
English Elective***	3
Education Certification Requirements (p. 115-127)	37
Second Teaching Field (some fields exceed 30 hours)	30
	142

*Six hours of literature from Area 2, sections B and C plus the required Psychology 100 satisfy Core Curriculum requirements.

**A list of courses which fulfill these requirements is available in the English department.

***Must be beyond freshman composition. The student also will need to satisfy the computer literacy requirement as determined by the English department.

Bachelor of Science in Education with a Major in English

Grades 7-12 Certification

Plan B Single Teaching Field

	Semester Hours
Core Requirements (p. 35) 51*	42
English Requirements	42
Eng 301 Modern Grammar	3
Eng 319 Composition for Teachers	3
Eng 330 Literature for Adolescents	3
Eng 400 History of the English Language	3
Eng 216 Creative Writing	
OR	
Eng 310 Professional Writing	
OR	
Eng 313 Technical Writing	
OR	
Eng 315 Exposition	3
English Literature**	6
American Literature**	6
World Literature**	3
English Electives***	12
Education Certification Requirements (p. 115-127)	37
Electives	4
	128

*Six hours of literature from Area 2, Sections B and C plus the required Psychology 100 satisfy Core Curriculum requirements.

**A list of courses which fulfill these requirements is available in the English department.

***Must be beyond freshman composition. The student also will need to satisfy the computer literacy requirement as determined by the English department.

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Minor in English

	Semester Hours
Eng 216, 310 or 315	3
Eng courses at the 300-400 level	9
Eng Electives (beyond freshman composition)	9
	21*

*Should be chosen in consultation with an adviser in the English department.

For additional information contact:
Dr. Stephen Spector
Office: Hearnes Hall 314
Phone: 625-9535

Suggested Order of Study

Bachelor of Arts

Major Code 1501

English Major

Freshman Year

Course	Hours
CORE [Eng 101 Comp I]	3
CORE [Hist 110 or 120 U.S. Hist]	3
CORE [Foreign Language]	3
CORE [Math 110 or equivalent]	3
CORE [HPER 101 Physical Activity]	1
Psy 120 College Orientation	1
	14

2nd Semester

CORE [Eng 102 Comp II]	3
CORE [PSc 120 Gov't: U.S./Sta/Loc]	3
CORE [Foreign Language]	3
Eng Elective	3
CORE [Hist 110, 120 or 320 U.S. History]	3
	15

Sophomore Year

1st Semester	
CORE [Foreign Language]	3
CORE [Comm 100 Oral Comm]	3
CORE [Bio 101 General Biology]	4
CORE [HPER 103 Lifetm Wellness]	2
Eng 310 Prof Wrtnng or Eng Elective	3
	15

2nd Semester

CORE [Foreign Language]	3
Eng Elective	3
CORE [Phys 100 Physical Science]	5
CORE [Psy 100 or Soc 110]	3
Eng 216 or 315 or English elective	3
	17

Junior Year

1st Semester	
Eng Elective	3
Eng 301 or Eng Elective	3
CORE [Econ 180 Amer Econ Sys]	3
Electives [Minor]	9
	18

2nd Semester

Eng 400 History of the Eng Lang	
OR	
Eng Elective	3
Eng Elective	3
CORE [Art 110, Mus 110 or Th 110]	3
Elective [Minor]	6
	15

Senior Year

1st Semester	
Eng Electives	9
Eng Elective [Minor]	6
CORE [International Cultural Stu]	3
	18

2nd Semester

Eng Electives	9
Elective [Minor]	9
	18

[Department Recommendations]

Students must choose one course from 216, 310, 313 or 315. Eng 310 is offered fall semesters only; 216, 313 and 315 spring semesters only. Eng 301 is offered fall semesters only; Eng 400 is offered in spring semesters only. Six hours of literature selected from Area 2, sections B and C will satisfy six hours of the Core Curriculum requirements page 35.

For additional information contact:
Dr. Stephen J. Spector
Office: Hearnes Hall 314
Phone: 625-9535

Bachelor of Science in Education

Major Code 0842

English Major

Grades 7-12 Certification

Plan A One of Two Teaching Fields

Note: Students following Plan A should consult an adviser in English and the other major to work out an individualized program.

Freshman Year

1st Semester	Hours
Course	
CORE [Eng 101 Comp I]	3
Psy 100 General Psychology	3
CORE [Hist 110 or 120 U.S. Hist]	3
CORE [Math 110 or equivalent]	3
CORE [HPER 101 Physical Activity]	1
Psy 120 College Orientation	1
CORE [Econ 180 Amer Econ Sys]	3
	17

2nd Semester

CORE [Eng 102 Comp II]	3
CORE [Lit Survey: Eng/Amer/World]	3
CORE [PSc 120 Gov't: U.S./Sta/Loc]	3
CORE [Bio 101 General Biology]	4
CORE [Art 110, Mus 110 or Th 110]	3
Educ 100 Orientation to Educ I	1
	17

Sophomore Year

1st Semester

Take C-Base test.

CORE [Area 2 C: Eng, Amer, World Lit]	
OR	
Eng 150 Intro to Literature	
OR	
Eng 305 Short Story	3
Eng [Eng, Amer or World Lit]	3
CORE [HPER 103 Lifetm Wellness]	2
CORE [Phys 100 Physical Science]	5
Psy 301 Adolescent Psychology	3
Educ 200 Orientation to Educ II	1
	17

2nd Semester

Apply for admission to teacher education during first six weeks of the semester.

Eng [Eng, Amer or World Lit]	3
Eng [Eng, Amer or World Lit]	3
Psy 302 Exceptional Child	2
Psy 310 Educational Psychology	3
CORE [Comm 100 Oral Comm]	3
CORE [Hist 110, 120 or 320]	3
	17

Junior Year

Pass media competencies.

1st Semester

Eng 301 Modern Grammar	3
Eng 310 or Eng Elective	3
Educ 321 Microteaching	2
Educ 329 Ped Theo Meth & Prac	4
Educ 401 Computer Software (opt.)	2
Educ 423 Classroom Management	2
	16

2nd Semester

Eng 400 Hist of Eng Language	3
Eng 216 or 315	3
Eng 330 Lit for Adolescents	3
	9

Senior Year

Apply for admission to student teaching. All course work must be completed except for professional semester courses.

1st Semester

Eng Electives	9
Eng 319 Comp for Teachers	3
CORE [Intern'l Cultural Stu]	3
	15

2nd Semester

Educ 332 Tchng Eng in Sec Sch	2
Educ 462 Student Teaching	8
Educ 402 Foundations	2
Educ 432 Critical Issues	2
Educ 412 Indiv Curriculum Dev (2)	
OR	
Educ 420 Intro to Counseling** (3)	
OR	
Psy 412 Meas & Eval (2)	2-3
Educ 422 Reading in Sec School*	2
	18-19

*May be taken any semester after completing the junior block.

**Offered at night only. Must be taken the semester prior to student teaching.

[Department Recommendations]

For additional information contact:
Dr. Stephen Spector
Office: Hearnese Hall 314
Phone: 625-9535

Bachelor of Science in Education English Major Plan B Single Teaching Field Grades 7-12 Certification

Freshman Year

1st Semester		Hours
CORE	[Eng 101 Comp I]	3
Psy 100	General Psychology	3
CORE	[Hist 110 or 120]	3
CORE	[Math 110 or equiv]	3
CORE	[HPER 101 Physical Activity]	1
Psy 120	College Orientation	1
CORE	[Econ 180 Amer Econ Sys]	3
		17

2nd Semester

CORE	[Eng 102 Comp II]	3
CORE	[Lit Survey: Eng/Amer/World]	3
CORE	[Psy 100 Gen Psychology]	3
CORE	[Bio 101 General Biology]	4
CORE	[Art 110, Mus 110 or Th 110]	3
Educ 100	Orientation to Educ I	1
		17

Sophomore Year

1st Semester		
<i>Take C-Base test.</i>		
CORE	[Area 2-C: Eng/Amer/World]	3
Eng	[Eng, Amer or World Lit]	3
CORE	[HPER 103 Lifetm Wellness]	2
CORE	[Phys 100 Physical Science]	5
Psy 301	Adolescent Psychology	3
Educ 200	Orientation to Educ II	1
		17

2nd Semester

Apply for admission to teacher education during first six weeks of the semester.

Eng	[Eng, Amer or World Lit]	3
Psy 302	Exceptional Child	2
Psy 310	Educ Psychology	3
CORE	[Comm 100 Oral Comm]	3
CORE	[Hist 110, 120 or 320]	3
		14

Junior Year

Pass media competencies.

1st Semester		
Eng 301	Modern Grammar	3
Eng 310	or Eng elective	3
Educ 329	Ped Theo Meth & Prac	4
Educ 321	Microteaching	2
Educ 423	Classroom Management	2
Educ 401	Computer Software (opt.)	2
		16

2nd Semester

Eng 400	History of Eng Lang	3
Eng 216	or 315 or Eng Elective	3
Eng 330	Lit for Adolescents	3
Eng	Eng, Amer or World Lit	3
Elective		3
		15

Senior Year

Apply for admission to student teaching. All course work must be completed except for Professional Semester courses.

1st Semester		
Eng	Electives	9
Eng 319	Comp for Teachers	3
CORE	[International Cultural Stu]	3
		15

2nd Semester

Educ 332	Tching Eng in Sec School	2
Educ 462	Student Teaching	8
Educ 402	Foundations	2
Educ 432	Critical Issues	2
Educ 412	Indiv Curriculum Dev (2)	
OR		
Educ 420	Intro to Counseling (3)**	
OR		
Psy 412	Meas & Eval (2)	2-3
Educ 422	Reading in Sec School*	2
		18-19

*May be taken any semester after completing the junior block.

**Offered at night only. Must be taken the semester prior to student teaching.

For additional information contact:

Dr. Stephen Spector
Office: Hearnese Hall 314
Phone: 625-9535

Foreign Languages and Literatures

Webster Hall 353, 625-9580

Faculty Massa - Head, Bodon, Carter, Crawford, Kumbier, Peterson, Policarpo

Once it was simply said that fluency in a second language would be a valuable social and business asset. Now, however, a second language is deemed a necessity in solving many of the world's problems of this and the next century. The problems, we have learned, have their beginnings in understanding one another's words, ideas, cultures and beliefs. For business, foreign language skills have become an advantage, as *The Wall Street Journal* in a 1990 editorial said: "American managers with language skills open more doors." And The New York Times wrote: "American ignorance of other tongues has been hurting American business executives...."

In a college with an international mission, it becomes the task of the department of communications and its faculty in foreign languages to help students achieve communications skills in a non-native language.

To that end, the department has structured its foreign language offerings on a proficiency-based system of instruction so that students who enroll in a course will know at what level of general language proficiency they may begin and at what level they will end. Language study becomes, therefore an extremely practical tool.

By proceeding through a sequence of courses at the 100-and 200-level, students may prepare themselves for study at the Advanced level of language usage and then by further courses, combined with foreign study, achieve an Advanced Plus ability in language. This Advanced Plus proficiency will permit a student to perform successfully an internship abroad and during such an internship, even greater language proficiency may be developed.

A major in Spanish permits an in-depth study of the cultural heritages of various Hispanic civilizations. Extensive study in any of the languages offered, however, when combined with majors in business, political science or communications, as some examples, is especially valuable for students of the 1990s. Whether the students' interests are in the European community, the booming tourism profession, Pacific Rim trade or international politics, they will wish to develop a high level of proficiency in a foreign language.

For all students, the department provides opportunities for study abroad. The department also offers advice concerning the role of language study in career planning. Whether enrolled or not in an international program, students may wish to examine the possibilities offered by foreign language study in enriching their careers.

Students who have had no previous foreign language training are advised to enroll in a 101 course. Students with one year of high school foreign language classes also should enroll in a 101 course. Students who had two years of a language in high school may enroll in a 102 course of the same language, if they received at least a "B" in the high school language. Students who had three or four years of high school foreign language study may enroll in a 203 course in the same language, provided their high school grades were a "B" average in that language. Students who may have attained a proficiency greater than that offered in a 203 course will be placed appropriately after an assessment is made of their skills. In all cases, students should arrange with their instructors to "test-out" of lower-numbered courses to receive credit.

60 / Foreign Languages

Questions concerning the foreign language program should be addressed to the department of communications.

Bachelor of Arts with a Major in Spanish

	Semester Hours
Core Requirements (p. 35)	51
Computer Literacy Requirement:	
Comp 105 Intro to Microc Use	3
Spanish Requirements	40
Span 204 Intermediate Spanish II	3
Span Electives chosen with approval of Spanish adviser. At least 12 hrs. must be upper-division	37
Electives	34
	128*

*Must include at least 40 upper-division (300-400 level) hours.

Bachelor of Science in Education with a Major in Spanish

Grades K-12 Certification

Plan A One of Two Teaching Fields

	Semester Hours
Core Requirements (p. 35)51*	48
Computer literacy Requirement:	
Educ 401 Use of Computer Software in the Classroom	2
Spanish Requirements**	32
Span 101 Beginning Spanish I	3
Span 102 Beginning Spanish II	3
Span 203 Intermediate Spanish I	3
Span 204 Intermediate Spanish II	3
Span 301 Readings and Conversation	3
Span 302 Readings in Hispanic Literature and Culture	3
Span 303 Spanish Syntax I	
OR	
Span 304 Spanish Phonology	2
Span 320 Spanish Syntax II and Composition	3
Span 321 Peninsular Literature (to Calderon)	
OR	
Span 322 Peninsular Literature (to Present)	3
Span 333 Survey of Spanish-American Literature I	
OR	
Span 334 Survey of Spanish-American Literature II	3
Span 400 20th Century Spanish Drama	3
Education Certification Requirements (p. 115-127)	38-39
Second Teaching Field (some fields exceed 30 hrs.)	30
	150-151***

*Required courses in psychology satisfies the requirements for three hours of the Core Curriculum.

**A candidate for a degree under Plan A must also demonstrate proficiency level of "Advanced Plus" in Spanish. This level must be attained prior to doing student teaching.

***A minimum of 128 hours required for a degree, but the exact number depends on the second field. In this example, the total number of hours is greater than 128.

Bachelor of Science in Education with a Major in Spanish

Grades K-12 Certification

Plan B Single Teaching Field

	Semester Hours
Core Requirements (p.35)51*	45
Computer Literacy Requirement:	
Educ 401 Use of Computer Software in the Classroom	2
Spanish Requirements**	38
Span 101 Beginning Spanish I	3
Span 102 Beginning Spanish II	3
Span 203 Intermediate Spanish I	3
Span 204 Intermediate Spanish II	3
Span 301 Readings and Conversation	3
Span 302 Readings in Hispanic Literature and Culture	3
Span 303 Spanish Syntax I	
OR	
Span 304 Spanish Phonology	2
Span 320 Spanish Syntax II and Composition	3
Span 321 Peninsular Literature (to Calderon)	
OR	
Span 322 Peninsular Literature (to Present)	3
Span 333 Survey of Spanish-American Literature I	
OR	
Span 334 Survey of Spanish-American Literature II	3
Span 400 20th Century Spanish Drama	3
Span Electives	6
Education Certification Requirements (p. 115-127)	38
Electives	7
	128

*Required courses in psychology and intercultural communication satisfy requirements for six hours of the Core Curriculum.

**A candidate for a degree under Plan B must also demonstrate proficiency level of "Advanced Plus" in Spanish. This level must be attained prior to doing student teaching.

Minor in Spanish

A minor in Spanish requires a student attain a proficiency level of "Advanced Plus" and have 15 hours of approved classes in Hispanic literature at the upper-division level.

Minor in French

A minor in French requires 18 hours of courses in French of which six must be upper division.

Minor in German

A minor in German requires 18 hours of courses in German of which six must be upper division.

Suggested Order of Study

Bachelor of Arts

Major Code 1105

Spanish Major

Freshman Year

1st Semester

Course	Hours
Span 101 Beginning Spanish I	3
CORE [Eng 101 Comp I]	3
CORE [Comm 100 Oral Comm]	3
CORE [Math 110 Intro to Col Math]	3
CORE [HPER 103 Lifetm Wellness]	2
CORE [Humanities and Fine Arts]	3
Psy 120 College Orientation	1
	18

2nd Semester

Span 102 Beginning Spanish II	3
CORE [Eng 102 Comp II]	3
CORE [Humanities and Fine Arts]	3
CORE [Phys 100 Fund of Phys Sci]	5
CORE [HPER 101 Physical Activity]	1
	15

Sophomore Year

1st Semester

Span 203 Intermediate Spanish I	3
CORE [Humanities and Fine Arts]	3
CORE [Bio 101 General Biology]	4
CORE [Hist 110 U.S. History]	3
CORE [PSc 120 Gov't: U.S./Sta/Loc]	3
	16

2nd Semester

Span 204 Intermediate Spanish II	3
CORE [Psy 100 or Soc 110]	3
Comp 105 Intro to Micro Use	3
CORE [Hist 320 U.S. History]	3
Elective*	3-6
	15-18

Junior Year

1st Semester

Span 301 Readings and Conversation	3
CORE [Econ 180 Amer Econ Sys]	3
Electives*	10
	16

2nd Semester

Span 302	Rdngs in Hisp Lit & Culture	3
Span 320	Span Syntax II & Comp	3
Span 322	Peninsular Literature	3
Electives		6
		15

Senior Year

1st Semester

Span 303	Spanish Syntax I	2
Span 321	Peninsular Literature	3
Span 333	Survey of Span-Amer Lit I	3
Span 304	Spanish Phonology	2
Electives*		5
		15

2nd Semester

Span 334	Survey of Span-Amer Lit II	3
Span 400	20th Cen Span Drama	3
Electives*		10-12
		16-18

*Electives should be chosen in consultation with the student's major adviser and with the advice of a faculty member in a minor field of study, if one is chosen.

[Department Recommendations]

For additional information contact:

Mr. Richard W. Massa
Office: Webster Hall 362
Phone: 625-9372

Bachelor of Science in Education

Major Code 0847

Spanish Major (Plan B)

Grades K-12 Certification

Single Teaching Field

Freshman Year

1st Semester

Course		Hours
Span 101	Beginning Spanish I	3
CORE	[Eng 101 Comp I]	3
CORE	[Comm 100 Oral Comm]	3
CORE	[Math 110 Intro to Col Math]	3
CORE	[HPER 103 Lifetm Wellness]	2
Psy 120	College Orientation	1
Educ 100	Orientation to Educ I	1
		16

2nd Semester

Span 102	Beginning Spanish II	3
Psy 100	General Psychology	3
CORE	[Eng 102 Comp II]	3
CORE	[HPER 101 Physical Activity]	1
CORE	[Humanities and Fine Arts]	3
CORE	[Hist 110 U.S. History]	3
		16

Sophomore Year

1st Semester

Take C-Base Test.

Span 203	Intermediate Spanish I	3
Educ 200	Orientation to Educ II	1
CORE	[PSc 120 Gov't: U.S./Sta/Loc]	3
CORE	[Humanities and Fine Arts]	3
CORE	[Phys 100 Fund of Phys Sci]	5
Psy 305	Developmental Psychology	4
		19

2nd Semester

Apply for admission to teacher education.

Span 204	Intermediate Spanish II	3
Psy 310	Educational Psychology	2
CORE	[Humanities and Fine Arts]	3
CORE	[Bio 101 General Biology]	4
Educ 302	The Exceptional Child	2
		14

Junior Year

Pass media competencies.

1st Semester

Span 301	Readings and Conversation	3
Comm 305	Intercultural Communication	3
Educ 329	Ped Theo, Meth & Prac	4
Educ 321	Microteaching	2
Educ 423	Classroom Management	2
Elective*		3
		17

2nd Semester

Span 302	Rdngs in Hisp Lit & Culture	3
Span 320	Span Syntax II & Comp	3
Span 322	Peninsular Literature	3
Geog 412	Geog & Culture of Lat Amer	3
Span 400	20th Cent Span Drama	3
Educ 422	Rdng in Sec Sch	2
		17

Senior Year

Apply for student teaching. All course work must be completed except for Professional Semester courses.

1st Semester

Span 303	Spanish Syntax I	2
Span 333	Survey of Span-Amer Lit I	3
CORE	[Hist 320 U.S. History]	3
CORE	[Econ 180 Amer Econ Sys]	3
Educ 412	or Educ 420** or Educ 423 or Psy 412	2-3
Electives*		4
		17-18

2nd Semester

Educ 402	Foundations of Educ	2
Educ 432	Critical Issue in Educ	2
Educ 345	Tchng For Lang in Sec Sch	2
Educ 401	Use of Comp Sftwr in Clsrm	2
Educ 462	Student Teaching	8
		16

*Electives should be chosen in consultation with the student's major adviser and with the advice of a faculty member in a minor field of study, if one is chosen.

**Must be taken prior to the student teaching semester.

[Department Recommendations]

For additional information contact:

Mr. Richard W. Massa
Office: Webster Hall 362
Phone: 625-9372

Geography

Webster Hall 241, 625-9565

Faculty Tate - Head, Sale

Geography offers students a variety of employment possibilities. These range from positions in secondary education to opportunities in government and business planning.

Though a major is not now offered, sufficient hours are available to meet social studies teacher certification standards. Students may, with the supervision of a social science adviser, take a geography minor consisting of 18 semester hours.

Minor in Geography

	Semester Hours
Geog 211 Regions and Nations	3
Choose 6 hours from:	6
Geog 311 Political Geography	3
Geog 322 Economic Geography	3
Geog 412 Geography and Culture of Latin America	3
Geog 422 Geography of the U.S. and Canada	3
Geog 498 Seminar in Geography	3
Choose 9 hours from:	9
Draf 230 Survey and Mapping	3
CJAD 210 Basic Photography	3
Comp 115 Computing I	3
Geol 300 Environmental Geology	3
PSc 322 International Law	3
PSc 332 Comparative Government: Latin America	3
Soc 155 Physical Anthropology and Archaeology	3
Soc 361 The Study of Populations*	3
Soc 402 The Community*	3
	18

*See Prerequisites

Geology

Reynolds Hall 210, 625-9376

Faculty Baiamonte - Head, Knapp

Geology courses are used to supplement other major areas of study and for state certification for teaching general science at the 7-12 grade levels.

History

Webster Hall 241, 625-9564

Faculty Tate - Head, Holman, Laas, Markman, Sale, Smith, Tannenbaum, Teverow

A bachelor of arts degree with a major in history prepares students for entering career positions in business, governmental and community service fields and for entry into graduate programs in the social sciences and law. A bachelor of science in education with a major in social studies - history emphasis - certifies a student to enter professional teaching at the secondary school level. A minor in history is available for students majoring in other disciplines. Also see page 77 for a social sciences minor or the social studies for secondary education minor.

Core Curriculum requirements and Missouri statute requirements are met by History 110 and History 120 or 320. History 130 or 140 may also be used to meet certain Core Curriculum requirements.

History 110 or 120 is a prerequisite for all upper division U. S. history courses. History 320 substitutes for 120, but may not be used to fulfill upper division history requirements.

History 130 or 140 is a prerequisite for all upper division European or East Asian history courses.

Hist 130 or 140 cannot be taken as a corequisite with any upper division European or East Asian history course.

Bachelor of Arts with a Major in History

	Semester Hours
Core Requirements (p. 35) 51*	42
Computer Literacy Requirement - determined by Social Sciences Department	2-3
Foreign Language (four courses in one language)	12
History Requirements	33
Hist 110 U. S. History 1492-1877	3
Hist 120 U. S. History 1877-Present	
OR	
Hist 320 U. S. History 1877-Present	3
Hist 130 Western Civilization to 1660	3
Hist 140 Western Civilization Since 1660	3
Hist 497 Seminar in Historical Research**	
OR	
Hist 499 Independent Study (Internship)**	3

Hist	Upper Division U.S.**	6
Hist	Upper Division European or East Asian**	6
Hist	Upper Division Electives**	6
Electives		38-39
		128***

*Required History courses satisfy Major requirements and 9 hours of Core Curriculum.

**See Prerequisites.

***Must include at least 40 upper division (300-400 level) hours.

Bachelor of Science in Education with a Major in Social Studies

Grades 7-12 Certification

History Emphasis

Plan B

Single Teaching Field

	Semester Hours
Core Requirements (p. 35) 51*	33
History Requirements	33
Hist 110 U.S. History 1492-1877	3
Hist 120 U.S. History 1877-Present	
OR	
Hist 320 U.S. History 1877-Present	3
Hist 130 Western Civilization to 1660	3
Hist 140 Western Civilization	
Since 1660	3
Hist 497 Seminar in Historical	
Research**	
OR	
Hist 499 Independent Study	
(Internship)**	3
Hist Upper Division U.S.**	6
Hist Upper Division European	3
Hist Upper Division East Asian**	3
Hist Upper Division Electives**	6

Supporting Requirements		21
PSc 120	Gov't: U.S./State/Local	3
PSc	Upper Division Elective	3
Soc 110	Introduction to Sociology	3
Soc	Upper Division Elective	3
Geog 211	Regions and Nations	3
Geog	Upper Division Elective	3
Econ 180	Amer Econ System	3
Education Certification Requirements (p. 115-127)		39-40
Elective		1-2
		128

*Required history, political science, sociology and economics courses satisfy major requirements and 18 hours of Core Curriculum.

**See Prerequisites

Minor in History

	Semester Hours
Hist 110	U.S. History 1492-1877 3
Hist 120	U.S. History 1877-Present
OR	
Hist 320	U.S. History 1877-Present3
Hist 130	Western Civilization To 1660
OR	
Hist 140	Western Civilization
	Since 1660 3
Hist	Upper Division U.S. Elective* 3
Hist	Upper Division European*
OR	
Hist	Upper Division East
	Asian Elective* 6
	18

*Must be chosen with approval of history adviser.

Minor in Social Studies for Secondary Education

See page 77.

Suggested Order of Study

Bachelor of Arts

Major Code 2205

History Major

Freshman Year

1st Semester	Course	Hours
Hist 110	U.S. History 1492-1877*	3
CORE	[Eng 101 Comp I]	3
CORE	[Math 110 Intro to Col Math]	3
CORE	[HPER 103 Lifetm Wellness]	2
CORE	[HPER 101 Physical Activity]	1
CORE	[Humanities and Fine Arts]	3
Psy 120	College Orientation	1
		16

2nd Semester

Hist 120	U.S. History 1877-Present*	
OR		
Hist 320	U.S. History 1877-Present*	3
CORE	[Eng 102 Comp II]	3
CORE	[PSc 120 Gov't: U.S./Sta/Loc]	3
CORE	[Bio 101 Gen Biology]	4
CORE	[Comm 100 Oral Comm]	3
		16

Sophomore Year

1st Semester		
Hist 130	Western Civilization to 1660	3
Foreign Language		3
CORE	[Eng Literature]	3
Elective		3
CORE	[Econ 180 Amer Econ Sys]	3
		15

2nd Semester		
Hist 140	West Civil Since 1660	3
Foreign Language		3
CORE	[Soc 110 Intro to Sociology]	3
CORE	[Phys 100 Fund of Phys Sci]	5
CORE	[Computer Literacy course selected with adviser's approval]	3
		17

Junior Year

1st Semester		
Hist	Upper Div U.S. (not 320)	3
CORE	[Humanities and Fine Arts]	3
CORE	[International Cultural Stu]	3
Foreign Language		3
Elective	[A minor is suggested]	3
		15

2nd Semester		
Hist	Upper Division U.S. (not 320)	3
Foreign Language		3
Electives	[A minor is suggested]	9
		15

Senior Year

1st Semester		
Hist	Upper Div Eur or E. Asian	3
Hist	Upper Div Elective (not 320)	3
Electives	[A minor is suggested]	9
		15

2nd Semester		
Hist	Upper Div Eur or E. Asian	3
Hist	Upper Div Elective (not 320)	3
Hist 497	Seminar in Historical Research	OR
Hist 499	Independent Study**	3
Electives	[A minor is suggested]	7
		16

*Also meets a Core Curriculum requirement.
**See Prerequisites

[Department Recommendations]

For additional information contact:
Dr. Robert Markman
Office: Webster Hall 243
Phone: 625-9740

Bachelor of Science in Education Major Code 0843 Social Studies Major (Plan B) Single Teaching Field Grades 7-12 Certification History Emphasis

Freshman Year

1st Semester		
Course		Hours
Hist 110	U.S. History 1492-1877*	3
CORE	[Eng 101 Comp I]	3
Psy 100	General Psychology	3
CORE	[Math 110 Intro to Col Math]	3
Psy 120	College Orientation	1
Educ 100	Orientation to Education I	1
CORE	[Comm 100 Oral Comm]	3
		17

2nd Semester		
Hist 120	U.S. History 1877-Present*	3
OR		
Hist 320	U.S. History 1877-Present*	3
CORE	[Eng 102 Comp II]	3
PSc 120	Gov't: U.S./State/Local*	3
CORE	[Bio 101 General Biology]	4
CORE	[HPER 101 Activities]	1
Elective		3
		17

Sophomore Year

1st Semester		
<i>Take C-Base test.</i>		
Hist 130	Western Civilization to 1660	3
CORE	[Eng Literature]	3
CORE	[HPER 103 Lifetm Wellness]	2
CORE	[Phys 100 Fund of Phys Sci]	5
Educ 200	Orientation to Education II	1
Psy 301	Adolescent Psychology	3
		17

2nd Semester		
<i>Apply for admission to Teacher Education.</i>		
Hist 140	Western Civil 1660-Present	3
Geog 211	Regions and Nations	3
Soc 110	Intro to Sociology*	3
CORE	[Humanities and Fine Arts]	3
Psy 310	Educational Psychology	2
Educ 302	Exceptional Child	2
		16

Junior Year

1st Semester		
<i>Pass media competencies.</i>		
Hist	Upper Div U.S. (not 320)	3
Econ 180	Amer Econ System	3
Educ 329	Ped Theo Meth & Prac	4
Educ 321	Microteaching	2
Educ 401	Use of Comp Sftwr in Clsrm	2
Educ 423	Classroom Management	2
		16

2nd Semester		
Hist	Upper Div U.S. (not 320)	3
Hist	Upper Div Eur or E.Asian	3
Soc 342	Comparative Cultures	3
Hist	Upper Div Elective (not 320)	3
PSc	Upper Division Elective	3
		15

Senior Year

1st Semester		
<i>Apply for admission to student teaching. All course work must be completed except Professional Semester courses.</i>		
Hist	Upper Div Elective (not 320)	3
Hist	Upper Div Eur or E. Asian	3
Hist 497	Seminar in Historical Research	OR
Hist 499	Internship	3
Geog	Upper Division Elective	3
CORE	[Humanities and Fine Arts]	3
Educ 422	Rdng in Secondary School	2
		17

2nd Semester		
Educ 334	Tchng Soc Sci in Sec Sch	2
Professional Semester		14
		16

See pages 115-127 for specific education department requirements.

*Also meets a Core Curriculum requirement.

For additional information contact:
Dr. David Tate
Office: Webster Hall 245
Phone: 625-9565

Mathematics

Reynolds Hall 210, 625-9376

Faculty Martin - Head, Adkins, Cassens, Curtis, Elick, Harmon, Jolly, Livingston, Miller, Mulkey, Noel, Thuong, Vazquez

In an increasingly technological society, applications of mathematics continue to increase in variety. Persons with quantitative ability and training are in high demand. Career opportunities exist in a diversity of fields such as engineering, computer science, economics, statistics, operations research, management and education. Missouri Southern graduates are enjoying success in all of these areas. Some graduates choose to begin careers immediately upon graduation; others choose to continue their education in graduate school. The curriculum is designed to prepare students for either path. The computational mathematics option allows a student to obtain a double major in mathematics and computer science.

For the student wishing to prepare for a career in engineering, the mathematics department and the physical science department have worked in close cooperation with the staff at the University of Missouri-Rolla to develop a "Model Program for Engineering Transfers." Students may obtain a copy of this pamphlet from the department head. The program consists basically of two years at Missouri Southern and two years at Rolla. Naturally, time spent at either institution varies depending on the student's individual rate of progress.

Core Curriculum requirements for the bachelor's and the associate of arts degree can be met with any mathematics course numbered 110 or above. Note the limitations on Math 111 in the course descriptions.

Core Curriculum requirements for the associate of science degree can be met with any mathematics course numbered 030 or above.

For students majoring in mathematics or mathematics education only courses in which they have earned a grade of "C" or above can be used to satisfy departmental mathematics requirements.

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Bachelor of Science with a Major in Mathematics

	Semester Hours	
Core Requirements (p. 35) 51*	43	
Mathematics Requirements	39	
Math 150 Calculus with Analytic Geometry I**	5	
Math 250 Calculus with Analytic Geometry II**	5	
Math 260 Calculus with Analytic Geometry III**	5	
Math 300 Fundamentals of Mathematical Thought**	3	
Math 342 Abstract Algebra**	3	
OR		
Math 351 Linear Algebra**	3	
Math Electives numbered above 320***	18	
Supporting Requirements	18	
Physics and/or chemistry electives - must include at least one course from each (excluding Chem 100, Phys 100, Phys 120, Phys 140, Phys 180, Phys 300)	15	
Comp 110 (or above)	3	
Electives	28	
	128****	

*Required mathematics, chemistry and physics courses satisfy major requirements and 8 hours of the Core Curriculum.

**See Prerequisites

***Must include one from Math 350, 371, 431, 452 to satisfy computer literacy requirement.

****Must include at least 40 upper division (300 - 400 level) hours.

Only courses in which a student has earned a grade of "C" or above can be used to satisfy departmental mathematics requirements for the major or minor in mathematics.

Bachelor of Science with a Major in Mathematics Computational Mathematics Option*

	Semester Hours	
Core Requirements (p. 35) 51**	43	
Mathematics Requirements	33	
Math 150 Calculus with Analytic Geometry I***	5	
Math 250 Calculus with Analytic Geometry II***	5	
Math 260 Calculus with Analytic Geometry III***	5	
Math 300 Fundamentals of Mathematical Thought***	3	
Math 350 Introduction to Numerical Analysis***	3	
OR		
Math 431 Numerical Analysis***	3	
Math 351 Linear Algebra***	3	
Math 371 Introduction to Operations Research (WI)***	3	

Math	Electives numbered above 320***	6
CIS	Core	33
Comp 110	Programming I	3
Comp 210	Block Structured Programming	3
Comp 234	Business Data Processing Techniques (COBOL)	3
CIS 335	Programming in C	3
CIS 345	Computer Networks	3
CIS 350	Data Structures	3
CIS 360	Computer Graphics	3
CIS 425	Database Design and Implementation (WI)	3
CIS 430	Introduction to Artificial Intelligence	3
CIS 450	Operating Systems (WI)	3
CIS	Electives numbered above 305	3
Supporting Requirements		13
Physics and/or chemistry electives must include at least one course from each (excluding Chem 100, Phys 100, Phys 120, Phys 140, Phys 180, and Phys 300)		6
Electives		6
Total		128

*This program is the same as the bachelor of science in CIS, computer science (Option 2). See page 143. Students selecting this option will graduate with a double major, mathematics and computer information science.

**Required mathematics, chemistry and physics courses satisfy major requirements and 8 hours of the Core Curriculum.

***See Prerequisites

Only courses in which a student has earned a grade of "C" or above can be used to satisfy departmental mathematics requirements for the major or minor in mathematics.

Bachelor of Science in Education with a Major in Mathematics

Grades 7-12 Certification Plan A One of Two Teaching Fields

	Semester Hours	
Core Requirements (p. 35) 51*	45	
Mathematics Requirements	30	
Math 150 Calculus with Analytic Geometry I**	5	
Math 250 Calculus with Analytic Geometry II**	5	
Math 260 Calculus with Analytic Geometry III**	5	
Math 300 Fundamentals of Mathematical Thought**	3	
Math 332 Geometry**	3	
Math 342 Abstract Algebra**	3	
OR		
Math 351 Linear Algebra**	3	

Math 361	Introduction to Probability**	3
Math	Elective***	3
Supporting Requirements		3
Comp 110	(or above, substitutes for Educ 401)	3
Education Certification Requirements (p. 115-127)		39-40
Second teaching field (some fields exceed 30 hours)		30
		147-148****

*Required courses in mathematics and psychology satisfy major requirements and 6 hours of the Core Curriculum.

**See Prerequisites

***Must include one from Math 350, 371, 431, 452 to satisfy computer literacy requirement.

****(varies with 2nd field)

Only courses in which a student has earned a grade of "C" or above can be used to satisfy departmental mathematics requirements for the major or minor in mathematics education.

Bachelor of Science in Education with a Major in Mathematics

Grades 7-12 Certification Plan B Single Teaching Field

	Semester Hours	
Core Requirements (p. 35) 51*	40	
Mathematics Requirements	33	
Math 150 Calculus with Analytic Geometry I**	5	
Math 250 Calculus with Analytic Geometry II**	5	
Math 260 Calculus with Analytic Geometry III**	5	
Math 300 Fundamentals of Mathematical Thought**	3	
Math 332 Geometry**	3	
Math 342 Abstract Algebra**	3	
OR		
Math 351 Linear Algebra**	3	
Math 361 Introduction to Probability**	3	
Math	Electives numbered above 320***	6
Supporting Requirements		13
Physics and/or Chemistry electives - must include courses from both (excluding Chem 100, Phys 100, Phys 120, Phys 140, Phys 180)	10	
Comp 110 (or above, substitutes for Educ 401)	3	
Education Certification Requirements (p. 115-127)		39-40
Electives		2-3
		128

*Required courses in mathematics, chemistry, physics and psychology satisfy major requirements and 11 hours of the Core Curriculum.

**See Prerequisites

***Must include one from Math 350, 371, 431, 452 to satisfy computer literacy requirement.

Only courses in which a student has earned a grade of "C" or above can be used to satisfy departmental mathematics requirements for the major or minor in mathematics education.

Minor in Mathematics

	Semester	Hours
Math 150	Calculus with Analytic Geometry I	5
Math 250	Calculus with Analytic Geometry II	5
Math	Electives numbered above 250*	11

*At least 6 hours upper division.

Suggested Order of Study

Bachelor of Science

Major Code 1701

Mathematics

Freshman Year

1st Semester		
Course		Hours
Math 150	Calc w/Anal Geo I	5
Chem 101	General Chemistry I	5
CORE	[Eng 101 Comp I (WI)]	3
CORE	[Area 2 Elective]	3
Psy 120	College Orientation	1
		17

2nd Semester

Math 250	Calc w/Anal Geo II	5
CORE	[Eng 102 Comp II (WI)]	3
Phys 250	General Physics I	4
Comp 110	Programming I	3
CORE	[Comm 100 Oral Comm]	3
		18

Sophomore Year

1st Semester		
Math 260	Calc w/Anal Geo III	5
CORE	[Econ 180 Amer Econ Sys]	3
CORE	[Hist 110 U.S. History]	3
CORE	[HPER 103 Lifetm Wellness]	2
Elective Phys or Chemistry Electives*		3-5
		16-18

2nd Semester

Math 300	Fund of Math Thought	3
Math	Elective [322]	3
CORE	[Psy 100 or Soc 110]	3
CORE	[Area 2 Elective]	3
CORE	[Hist 120 or 320 U.S. Hist]	3
		15

Junior Year

1st Semester		
Math	Electives**	6
CORE	[Area 2 Elective]	3
Elective Chem or Physics Electives*		3-5
CORE	[PSc 120 Gov't: U.S./Sta/Loc]	3
		15-17

2nd Semester

Math	Electives**	6
CORE	[Bio 101 General Biology]	4
CORE	[HPER 101 Physical Activity]	1
CORE	[Area 5 Elective]	3
Elective		3
		17

Senior Year

Course	Hours
1st Semester	
Math Electives**	6
Electives	9
	15
2nd Semester	
Math Electives**	6
Electives	9
	15

*See requirements and exclusions on page 64.

**Electives must be approved by math adviser.

[Department Recommendations]

For additional information contact:

Dr. J. Larry Martin

Office: Reynolds Hall 212

Phone: 625-9540

Bachelor of Science

Major Code 1702

Computational Mathematics Option

Freshman Year

1st Semester		
Course		Hours
Comp 110	Programming I	3
Math 150	Calc w/Anal Geo I	5
CORE	[Eng 101 Comp I (WI)]	3
Chem 101	General Chemistry I	5
Psy 120	College Orientation	1
		17

2nd Semester

Comp 210	Blk Struct Prog	3
Math 250	Calc W/Anal Geo II	5
CORE	[Eng 102 Comp II (WI)]	3
Phys 250	General Physics I	5
CORE	[HPER 101 Physical Activity]	1
		17

Sophomore Year

1st Semester		
Comp 234	Bus DP Tech (COBOL)	3
CIS 335	Programming in C	3
Math 260	Calc w/Anal Geo III	5
CORE	[Comm 100 Oral Comm]	3
CORE	[Hist 110 U.S. History]	3
		17

2nd Semester

CIS 345	Computer Networks	3
CIS 350	Data Structures	3
Math 300	Fund of Math Thought	3
CORE	[Psy 100 or Soc 110]	3
CORE	[HPER 103 Lifetm Wellness]	2
CORE	[Area 2 Elective]	3
		17

Junior Year

1st Semester		
CIS 430	Intro to Artif Intell	3
Math 371	Intro Ops Research (WI)	3
CORE	[Bio 101 General Biology]	4
CORE	[Hist 120 or 320 U.S. Hist]	3
CORE	[Area 2 Elective]	3
		16

2nd Semester

CIS 425	Database Systems (WI)	3
Math 350	Intro to Num Analysis	3
Math	Elective**	3
CORE	[Area 5 Elective]	3
CORE	[PSc 120 Gov't: U.S./Sta/Loc]	3
		15

Senior Year

1st Semester		
CIS 450	Operating Sys (WI)	3
Math 351	Linear Algebra	3
Chem/Phys	Elective*	3
CORE	[Econ 180 Amer Econ Sys]	3
Elective		3
		15

2nd Semester

CIS 360	Computer Graphics	3
CIS	Elective	3
Math	Elective**	3
CORE	[Area 2 Elective]	3
Elective		3
		15

*See requirements and exclusions on page 64.

**Electives must be approved by math adviser.

[Department Recommendations]

For additional information contact:

Dr. J. Larry Martin

Office: Reynolds Hall 212

Phone: 625-9540

Bachelor of Science in Education

Major Code 0833

Mathematics Major

Grades 7-12 Certification

(Plan B) Single Teaching Field

Freshman Year

1st Semester		Hours
Course		
Math 150	Calc w/Anal Geo I	5
CORE	[Eng 101 Comp I (WI)]	3
Psy 100	General Psychology	3
CORE	[HPER 103 Lifetm Wellness]	2
Educ 100	Orientation to Educ I	1
Psy 120	College Orientation	1
		15

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2nd Semester		
Math 250	Calc w/Anal Geo II	5
Chem 101	General Chemistry I*	5
CORE	[Eng 102 Comp II (WI)]	3
Comp 110	Programming I	3
CORE	[HPER 101 Physical Activity]	1
		17

Sophomore Year

1st Semester		
<i>Take C-Base Test.</i>		
Math 260	Calc w/Anal Geo III	5
Phys 250	General Physics I*	5
CORE	[Comm 100 Oral Comm]	3
CORE	[Area 2 Elective]	3
Educ 200	Orientation to Educ II	1
		17

2nd Semester

<i>Apply for admission to Teacher Education.</i>		
Math 300	Fund of Math Thought	3
CORE	[Bio 101 General Biology]	4
CORE	[Area 2 Elective]	3
Psy 301	Adolescent Psychology	3
CORE	[Hist 110 U.S. History]	3
		16

Junior Year

1st Semester		
<i>Pass media competencies.</i>		
Math 332		
OR		
Math 361		3
Math	Elective**	3
Educ 329	Ped Theo, Meth & Prac	4
Educ 321	Microteaching	2
Educ 423	Classroom Management	2
CORE	[Hist 120 or 320 U.S. Hist]	3
		17

2nd Semester

Math	Electives**	6
CORE	[PSc 120 Gov't: U.S./Sta/Loc]	3
Psy 310	Educational Psychology	2
Psy 302	Exceptional Child	2
CORE	[Area 2 Elective]	3
		16

Senior Year

1st Semester		
<i>Apply for admission to student teaching. All course work must be completed except Professional Semester courses.</i>		
Math 332		
OR		
Math 361		3
Math	Elective**	3
CORE	[Area 5 Elective]	3
CORE	[Econ 180 Amer Econ Sys]	3
Educ 422	Rdng in the Sec School	2
Elective		3
		17

2nd Semester

Educ 339	Tchng Math in Sec Schools	3
Educ 402	Foundations of Education	2
Educ 432	Critical Issues	2
Educ 412	Individual Curriculum Dev (2)	
OR		
Educ 420	Intro to Counseling*** (3)	
OR		
Psy 412	Meas & Eval	2-3
Educ 462	Student Teaching	8
		17-18

*See requirements and exclusions on page 64.
 **Electives must be approved by math adviser.
 ***Offered at night only. Must be taken the semester prior to student teaching.

[Department Recommendations]

For additional information contact:
 Dr. J. Larry Martin
 Office: Reynolds Hall 212
 Phone: 625-9540

Music

Music Building 214, 625-9318

Faculty Havelly - Head, Carnine, Clark, Clinton, Elliott, Harrell, Harris, Meeks, Thelen

The department of music offers a bachelor of arts degree and a bachelor of science in education degree with a major in music. Each degree prepares graduates for performance, studio teaching, and/or continued study toward an advanced degree. In addition, the bachelor of science in education degree prepares graduates for teaching in public education.

Core Curriculum requirements for one course in Area 2, Humanities and Fine Arts, are fulfilled by Mus 110 Music Appreciation.

Bachelor of Arts with a Major in Music

		Semester Hours
Core Requirements (p. 35)		51
Computer Literacy Requirement - determined by music department		2-3
Foreign Language (four courses in one language)		12
Music Requirements		72
Mus 109	Sight Singing & Ear Training*	2
Mus 210	Sight Singing & Ear Training*	2
Mus 111	Music Theory	3
Mus 112	Music Theory*	3
Mus 182	Conducting Techniques*	2
Mus 211	Music Theory*	3
Mus 212	Music Theory*	3
Mus 240	Recital Attendance (8 semesters)	0
Mus 311	History of Music*	3
Mus 312	History of Music*	3
Mus 420	Form and Analysis*	3
Mus 431	Orchestration*	3
Mus 444	Advanced Conducting Techniques*	2
Mus 450	Senior Recital*	0
Large Music Ensemble	(8 semesters)***	16

Private study in one area (8 semesters)	16
Applied piano elective (Except keyboard majors)	8
(Keyboard majors must take 8 semester hours of music electives in lieu of the applied piano elective.)	
137-138**	

*See Prerequisites

**Must include at least 40 upper division (300 - 400 level) hours.

***Must be taken the last eight semesters of residency.

Bachelor of Science in Education with a Major in Music

Grades K-12 Certification
Plan B Single Teaching Field Option 1 Instrumental Emphasis

		Semester Hours
Core Requirements (p. 35) 51*		48
Music Requirements		74
Mus 109	Sight Singing & Ear Training**	2
Mus 210	Sight Singing & Ear Training**	2
Mus 111	Music Theory	3
Mus 112	Music Theory**	3
Mus 182	Conducting Techniques**	2
Mus 211	Music Theory**	3
Mus 212	Music Theory**	3
Mus 231	String Techniques	1
Mus 232	Brass Techniques	1
Mus 233	Percussion Techniques (Not open to percussion majors. Percussion majors must substitute a 2nd semester of Mus 232 or 234.)	1
Mus 234	Woodwind Techniques	1
Mus 240	Recital Attendance (7 semesters)	0
Mus 311	History of Music**	3
Mus 312	History of Music**	3
Mus 333	Music for the Elementary Grades***	2
Mus 411	Marching Band Methods**	2
Mus 420	Form and Analysis**	3
Mus 431	Orchestration**	3
Mus 432	Music in the Public School***	2
Mus 444	Advanced Conducting Techniques**	2
Mus 450	Senior Recital**	0
Mus	Vocal/Choral Elective	2
Mus	Piano/Wind Instrument	2

(a) Instrumental major, other than piano: two semester hours of piano study or the equivalent (Class piano may be included).

(b) Piano major: Two semester hours of private study on a wind instrument or the equivalent.

The requirement under (a) and (b) may be satisfied through private study and/or by a proficiency test.

Private study as a major in one area (7 semesters) 14
Large Ensemble (7 semesters)**** 14
Brass, woodwind or percussion major: the seven semesters of large ensemble must be inband.

String Major: the seven semesters of large ensemble must be in orchestra.

Education Certification Requirements
(p. 115-127) 40-41
162-163

*The required course in psychology satisfies both certification requirements and 3 hours of Core Curriculum, Area 3C.

**See Prerequisites

***Must be completed prior to the Professional Semester of supervised teaching.

****Must be taken the seven semesters immediately prior to the student teaching semester.

(b) Voice Major: Six semester hours of piano study or the equivalent (two semesters of private study following the satisfactory completion of four semesters of Mus 113).

The requirement under (a) and (b) may be satisfied through private study and/or by a proficiency test. Satisfactory completion of four semesters of Mus 113 constitutes passing the Piano Proficiency Test.

Private study as a major in one area (7 semesters) 14
Concert Chorale (7 semesters)**** 14
Education Certification Requirements
(p. 115-127) 40-41
162-163

*The required course in psychology satisfies both certification requirements and 3 hours of Core Curriculum.

**See Prerequisites

***Must be completed prior to the Professional Semester of super-vised teaching.

****Must be taken the seven semesters immediately prior to the student teaching semester.

Bachelor of Science in Education with a Major in Music

Grades K-12 Certification
Plan B Single Teaching Field
Option II Double Certification
Semester Hours

Core Requirements (p. 35) 51* 48
Music Requirements 108

All of the requirements listed for Option I and Option II, either (a) or (b), with the exception of the applied major requirement. 86
Private study as an applied major in one primary area (7 semesters. 14
Private study as an applied elective in one secondary area (4 semesters)
A proficiency test in the secondary major area must be passed before graduation. 8
A senior recital will be required only in the primary applied area.

Education Certification Requirements
(p. 115-127) 40-41
196-197

*The required course in psychology satisfies both certification requirements and 3 hours of Core Curriculum.

Minor in Music

	Semester Hours
Mus 111 Music Theory	3
Mus 112 Music Theory	3
Large Ensemble	4
Applied Music Elective (2 Semesters)	2
Music Electives*	9
	21

*Must be made with prior approval of music adviser, 6 must be upper division.

Suggested Order of Study

Bachelor of Arts

Major Code 1005

Music Major

Freshman Year

1st Semester	Course	Hours
Mus 111	Music Theory	3
Mus 207	Applied Music Major	2
Mus 240	Recital Attendance	Cr
Mus	App Piano or Mus Elective	1-2
Mus	Large Ensemble	2
CORE	[Eng 101 Comp I]	3
CORE	[Mus 110 Music Apprec]	3
Psy 120	College Orientation	1
		15-16

2nd Semester

Mus 112	Music Theory	3
Mus 109	Sight Singing & Ear Training	2
Mus 208	Applied Music Major	2
Mus 240	Recital Attendance	Cr
Mus	App Piano or Mus Elective	1-2
Mus	Large Ensemble	2
CORE	[Eng 102 Comp II]	3
CORE	[Math 110 Intro to Col Math]	3
		16-17

Sophomore Year

1st Semester

Mus 211	Music Theory	3
Mus 210	Sight Singing & Ear Training	2
Mus 207	Applied Music Major	2
Mus 240	Recital Attendance	Cr
Mus	App Piano or Mus Elective	1-2
Mus	Large Ensemble	2
CORE	[HPER 103 Lifetm Wellness]	2
CORE	[HPER 101 Physical Activity]	1
CORE	[Hist 110 U.S. History]	3
CORE	[Econ 180 Amer Econ Sys]	3
		19-20

2nd Semester

Mus 212	Music Theory	3
Mus 208	Applied Music Major	2
Mus 240	Recital Attendance	Cr
Mus	App Piano or Mus Elective	1-2
Mus	Large Ensemble	2
CORE	[Hist 120 U.S. History]	3
CORE	[Bio 101 General Biology]	4
CORE	[Psy 100 Gen Psychology]	3
		18-19

Bachelor of Science in Education with a Major in Music

Grades K-12 Certification
Plan B Single Teaching Field
Option II Vocal Emphasis
Semester Hours

Core Requirements (p. 35) 51* 48
Music Requirements 74

Mus 109	Sight Singing & Ear Training**	2
Mus 210	Sight Singing & Ear Training	2
Mus 111	Music Theory	3
Mus 112	Music Theory**	3
Mus 182	Conducting Techniques**	2
Mus 211	Music Theory**	3
Mus 212	Music Theory**	3
Mus 240	Recital Attendance (7 semesters)	0
Mus 309	Choral Techniques	2
Mus 311	History of Music**	3
Mus 312	History of Music**	3
Mus 333	Music for the Elementary Grades***	2
Mus 420	Form and Analysis**	3
Mus 431	Orchestration**	3
Mus 432	Music in the Public School***	2
Mus 444	Advanced Conducting Techniques**	2
Mus 450	Senior Recital**	0
Mus	Instrumental Elective	2
Mus	Piano/Voice	6

(a) Piano Major: Six semester hours of private voice study or the equivalent

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Junior Year

1st Semester

Mus 182	Conducting Techniques	2
Mus 420	Form, Analysis	3
Mus 407	Applied Music Major	2
Mus 240	Recital Attendance	Cr
Mus	App Piano or Mus Elective	1-2
Mus	Large Ensemble	2
CORE	[Comm 100 Oral Comm]	3
Foreign Language		3

16-17

2nd Semester

Mus 444	Advanced Conducting	2
Mus 408	Applied Music Major	2
Mus 240	Recital Attendance	Cr
Mus 431	Orchestration	3
Mus	App Piano or Mus Elective	1-2
Mus	Large Ensemble	2
CORE	[Art 110 or Th 110]	3
Foreign Language		3

16-17

Senior Year

1st Semester

Mus 311	History of Music	3
Mus 407	Applied Music Major	2
Mus 240	Recital Attendance	Cr
Mus	App Piano or Mus Elective	1-2
Mus	Large Ensemble	2
CORE	[Phys 100 Fund of Phys Sci]	5
CORE	[Eng 281 or 282 Lit]	3
Foreign Language		3

19-20

2nd Semester

Mus 312	History of Music	3
Mus 408	Applied Music Major	2
Mus 240	Recital Attendance	Cr
Mus 450	Senior Recital	1-2
Mus	Large Ensemble	2
CORE	[PSc 120 Gov't: U.S./Sta/Loc]	3
Educ 401	Use of Comp Software in Class (or computer course approved by music dept.)	2
CORE	[Soc 342 Compar Cultures]	3
Foreign Language		3

19-20

[Department Recommendations]

For additional information contact:

Mr. Pete Havely
Office: Music Building 216
Phone: 625-9318

Bachelor of Science in Education

Major Code 0832

Music Major

(Plan B) Single Teaching Field

Grades K-12 Certification

Piano Major with Vocal Emphasis

Freshman Year

1st Semester

Course		Hours
Mus 111	Music Theory	3
Mus 207	Applied Music-Major Piano	2
Mus 105	Applied Music-Voice	1
Mus 121	Choir	2
Mus 240	Recital Attendance	Cr
CORE	[Eng 101 Comp I]	3
Psy 120	College Orientation	1
CORE	[Mus 110 Music Apprec]	3
Psy 100	General Psychology	3
Educ 100	Orientation to Educ I	1
		19

19

2nd Semester

Mus 112	Music Theory	3
Mus 109	Sight Singing & Ear Training	2
Mus 208	Applied Music Major Piano	2
Mus 106	Applied Music Voice	1
Mus 121	Choir	2
Mus 240	Recital Attendance	Cr
CORE	[Eng 102 Comp II]	3
CORE	[Math 110 Intro to Col Math]	3
Mus	Instrumental Elective	2
CORE	[Econ 180 Amer Econ Sys]	3

21

Sophomore Year

1st Semester

Take C-Base test.

Mus 310	Vocal Techniques	2
Mus 211	Music Theory	3
Mus 210	Sight Singing & Ear Training	2
Mus 207	Applied Music Major Piano	2
Mus 105	Applied Music Voice	1
Mus 121	Choir	2
Mus 240	Recital Attendance	Cr
CORE	[HPER 103 Lifetm Wellness]	2
CORE	[HPER 101 Physical Activity]	1
CORE	[Eng 281 or 282 Lit]	3
Educ 200	Orientation to Educ II	1
Educ 302	Exceptional Child	2

21

2nd Semester

Apply for admission to teacher education.

Mus 212	Music Theory	3
Mus 208	Applied Music Major Piano	2
Mus 106	Applied Music Voice	1
Mus 121	Choir	2
Mus 240	Recital Attendance	Cr
CORE	[Hist 110 U.S. History]	3
CORE	[Comm 100 Oral Comm]	3
CORE	[Bio 101 General Biology]	4
CORE	[PSc 120 Gov't: U.S./Sta/Loc]	3

21

Junior Year

1st Semester

Pass media competencies.

Mus 182	Conducting	2
Mus 311	History of Music	3
Mus 420	Form & Analysis	3
Mus 407	Applied Music Major Piano	2
Mus 305	Applied Music Voice	1
Mus 321	Choir	2
Mus 240	Recital Attendance	Cr
Educ 329	Ped Theo Meth & Prac	4
Educ 321	Microteaching	2
Educ 423	Classroom Management	2

21

2nd Semester

Mus 444	Advanced Conducting	2
Mus 312	History of Music	3
Mus 408	Applied Music Major	2
Mus 306	Applied Music Voice	1
Mus 321	Choir	2
Mus 240	Recital Attendance	Cr
Mus 333	Music in Elem Grades	2
Mus 431	Orchestration	3
CORE	[Hist 320 U.S. History]	3
Psy 305	Developmental Psychology	4

22

Senior Year

1st Semester

Apply for admission to Student Teaching. All course work must be completed except Professional Semester courses.

Mus 421	Choir	2
Mus 432	Music in Public Schools	2
Mus 408	Applied Music Major	2
Mus 450	Senior Recital	Cr
Mus 240	Recital Attendance	Cr
Psy 310	Educational Psychology	2
CORE	[Phys 100 Fund of Phys Sci]	5
Educ 401	Use of Comp Software in Class (or computer course approved by music dept.)	2
Educ 422	Tching Rding in Sec Sch	2
CORE	[Soc 342 Compar Cultures]	3
CORE	[Art 110 or Th 110]	3

23

2nd Semester

Mus 335	Tching Music in Sec School	2
Educ 402	Foundations of Educ	2
Educ 432	Critical Issues in Educ	2
Educ 412	Individual Curriculum Dev (2)	
OR		
Educ 420	Intro to Counseling* (3)	
OR		
Psy 412	Meas & Eval (2)	2-3
Educ 464	Student Teaching	8

16-17

[Department Recommendations]

*Must be taken at night, semester prior to student teaching.

For additional information contact:

Mr. Pete Havely
Office: Music Building 216
Phone: 625-9318

Bachelor of Science in Education

Major Code 0832

Music Major

Grades K-12 Certification

(Plan B) Single Teaching Field

Piano Major with Instrumental Emphasis

Freshman Year

1st Semester

Course	Hours
Mus 111 Music Theory	3
Mus 231 OR	
Mus 233 String/Percussion Techniques	1
Mus 207 Applied Music Major Piano	2
Mus 191 Band	2
Mus 240 Recital Attendance	Cr
CORE [Eng 101 Comp I]	3
Psy 120 College Orientation	1
CORE [Mus 110 Music Apprec]	3
Psy 100 General Psychology	3
Educ 100 Orientation to Educ I	1
	19

2nd Semester

Mus 112 Music Theory	3
Mus 232 OR	
Mus 234 Brass/Woodwind Tech	1
Mus 109 Sight Singing & Ear Training	2
Mus 208 Applied Music Major Piano	2
Mus 192 Band	2
Mus 240 Recital Attendance	Cr
CORE [Eng 102 Comp II]	3
CORE [HPER 103 Lifetm Wellness]	2
CORE [HPER 101 Physical Activity]	1
CORE [Math 110 Intro to Col Math]	3
CORE [Econ 180 Amer Econ Sys]	3
	22

Sophomore Year

1st Semester

Take C-Base test.

Mus 231 OR	
Mus 233 String/Perc Techniques	1
Mus 121 OR	
Mus 310 Choir or Vocal Techniques	2
Mus 211 Music Theory	3
Mus 210 Sight Singing & Ear Training	2
Mus 207 Applied Music Major Piano	2
Mus 240 Recital Attendance	Cr
CORE [Hist 110 U.S. History]	3
Educ 200 Orientation to Educ II	1
Educ 302 Exceptional Child	2
Mus 191 Band	2
Psy 305 Developmental Psychology	4
	22

2nd Semester

Apply for admission to teacher education.

Mus 232 OR	
Mus 234 Brass/Wdwind Techniques	1
Mus 212 Music Theory	3
Mus 208 Applied Music Major Piano	2
Mus 292 Band	2
Mus 240 Recital Attendance	Cr
CORE [Hist 120 U.S. History]	3
CORE [Bio 101 General Biology]	4
CORE [Comm 100 Oral Comm]	3
CORE [Eng 281 or 282 Lit]	3
	21

Junior Year

1st Semester

Pass media competencies.

Mus 182 Conducting Techniques	2
Mus 305 App Mus Woodwind/Brass	1
Mus 311 History of Music	3
Mus 420 Form & Analysis	3
Mus 407 Applied Music Major Piano	2
Mus 391 Band	2
Mus 240 Recital Attendance	Cr
Educ 329 Ped Theo Meth & Prac	4
Educ 321 Microteaching	2
Educ 423 Classroom Management	2
	21

2nd Semester

Mus 444 Advanced Conducting	2
Mus 306 App Mus Woodwind/Brass	1
Mus 312 History of Music	3
Mus 408 Applied Music Major	2
Mus 392 Band	2
Mus 240 Recital Attendance	Cr
Mus 333 Music in Elem Grades	2
Mus 431 Orchestration	3
CORE [Psc 120 Gov't U.S./Sta/Loc]	3
CORE [Art 110 or Th 110]	3
	21

Senior Year

1st Semester

Apply for admission to student teaching. All course work must be completed except Professional Semester courses.

Mus 411 Marching Band Methods	1
Mus 491 Band	2
Mus 432 Music in Public School	2
Mus 408 Applied Music Major Piano	2
Mus 450 Senior Recital	Cr
Mus 240 Recital Attendance	Cr
Psy 310 Educational Psychology	2
CORE [Phys 100 Fund of Phys Sci]	5
Educ 401 Use of Comp Sftwr in Cls (or computer course approved by music dept.)	2
Educ 422 Techniques of Reading	2
CORE [Soc 342 Compar Cultures]	3
	21

2nd Semester

Mus 335 Tchng Mus in Sec School	2
Educ 402 Foundations of Educ	2
Educ 432 Critical Issues in Educ	2
Educ 412 Individual Curriculum Dev (2)	
OR	
Educ 420 Intro to Counseling (3)*	
OR	
Psy 412 Meas & Eval (2)	2-3
Educ 464 Student Teaching	8
	16-17

*Offered at night only, must be taken semester prior to student teaching.
[Department Recommendations]

For additional information contact:

Mr. Pete Havelly

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Bachelor of Science in Education

Major Code 0832

Music Major

(Plan B) Single Teaching Field

Grades K-12 Certification

Vocal Major

Freshman Year

1st Semester

Course	Hours
Mus 111 Music Theory	3
Mus 207 Applied Music Voice	2
Mus 113 Class Piano	1
Mus 121 Choir	2
Mus 240 Recital Attendance	Cr
CORE [Eng 101 Comp I]	3
Psy 120 College Orientation	1
CORE [Mus 110 Music Apprec]	3
Psy 100 General Psychology	3
Educ 100 Orientation to Educ I	1
	19

2nd Semester

Mus 112 Music Theory	2
Mus Instrumental Elective	2
Mus 109 Sight Singing & Ear Training	2
Mus 208 Applied Music Voice	2
Mus 113 Class Piano	1
Mus 121 Choir	2
Mus 240 Recital Attendance	Cr
CORE [Eng 102 Comp II]	3
CORE [HPER 103 Lifetm Wellness]	2
CORE [HPER 101 Physical Activity]	1
CORE [Math 110 Intro to Col Math]	3
	20

Sophomore Year

1st Semester

Take C-Base Test.

Mus 310 Vocal Techniques	2
Mus 113 Class Piano	1
Mus 211 Music Theory	3
Mus 210 Sight Singing & Ear Training	2
Mus 207 Applied Music Voice	2
Mus 121 Choir	2
Mus 240 Recital Attendance	Cr
CORE [Eng 281 or 282 Lit]	3
Educ 200 Orientation to Educ II	1
Educ 302 Exceptional Child	2
CORE [Econ 180 Amer Econ Sys]	3
	21

2nd Semester

Apply for admission to Teacher Education.

Mus 113 Class Piano	1
Mus 212 Music Theory	3
Mus 208 Applied Music Voice	2
Mus 121 Choir	2
Mus 240 Recital Attendance	Cr
CORE [Hist 110 U.S. History]	3
CORE [Bio 101 General Biology]	4
CORE [Comm 100 Oral Comm]	3
CORE [Art 110 or Th 110]	3
	21

70 / Music

Junior Year

1st Semester

Pass media competencies.

Mus 182	Conducting Techniques	2
Mus 311	History of Music	3
Mus 420	Form & Analysis	3
Mus 407	Applied Music Voice	2
Mus 305	Piano	1
Mus 321	Choir	2
Mus 240	Recital Attendance	Cr
Educ 329	Ped Theo Meth & Prac	4
Educ 321	Microteaching	2
Educ 423	Classroom Management	2
		21

2nd Semester

Mus 444	Advanced Conducting	2
Mus 312	History of Music	3
Mus 408	Applied Music Voice	2
Mus 306	Piano	1
Mus 321	Choir	2
Mus 240	Recital Attendance	Cr
Mus 333	Music in Elem Grades	2
Mus 431	Orchestration	3
CORE	[PSc 120 Gov't: U.S./Sta/Loc]	3
Psy 305	Developmental Psychology	4
		22

Senior Year

1st Semester

Apply for student teaching. All courses must be completed except for Professional Semester.

Mus 421	Choir	2
Mus 432	Music in Public School	2
Mus 408	Applied Music Voice	2
Mus 450	Senior Recital	Cr
Mus 240	Recital Attendance	Cr
CORE	[Phys 100 Fund of Phys Sci]	5
Educ 401	Use of Comp Sftwr in Clsrm (or computer course approved by music dept.)	2
Educ 422	Tchng Rdng in Sec Sch	2
CORE	[Soc 342 Compar Cultures]	3
CORE	[Hist 320 U.S. History]	3
Psy 310	Education Psychology	2
		23

2nd Semester

Mus 335	Tchng Music in Sec School	2
Educ 402	Foundations of Educ	2
Educ 432	Critical Issues in Educ	2
Educ 412	Individual Curriculum Dev (2)	
OR		
Educ 420	Intro to Counseling (3)*	
OR		
Psy 412	Meas & Eval (2)	2-3
Educ 464	Student Teaching	8
		16-17

*Offered at night only, must be taken semester prior to student teaching.

[Department Recommendations]

For additional information contact:

Mr. Pete Havely

Office: Music Building 216

Phone: 625-9318

Bachelor of Science in Education

Major Code 0832

Music Major

Grades K-12 Certification

(Plan B) Single Teaching Field

Instrumental Major

Freshman Year

1st Semester

Course		Hours
Mus 111	Music Theory	3
Mus 207	Applied Music Major	2
Mus 113	Class Piano	1
Mus 191		
OR		

Mus 151	Band/Orchestra	2
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Mus 231

OR

Mus 233	String/Percus Techniques	1
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Mus 240	Recital Attendance	Cr
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CORE	[Eng 101 Comp I]	3
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Psy 120	College Orientation	1
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CORE	[Mus 110 Music Apprec]	3
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Psy 100	General Psychology	3
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Educ 100	Orientation to Educ I	1
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20

2nd Semester

Mus 112	Music Theory	3
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Mus 109	Sight Singing & Ear Training	2
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Mus 208	Applied Music Major	2
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Mus 113	Class Piano	1
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Mus 192

OR

Mus 152	Band or Orchestra	2
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Mus 232		
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OR

Mus 234	Brass/Wdwind Techniques	1
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Mus 240	Recital Attendance	Cr
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CORE	[Eng 102 Comp II]	3
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CORE	[HPER 103 Lifetm Wellness]	2
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CORE	[HPER 101 Physical Activity]	1
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CORE	[Math 110 Intro to Col Math]	3
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20

Sophomore Year

1st Semester

Take C-Base test.

Mus 121

OR

Mus 310	Choir or Vocal Techniques	2
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Mus 113	Class Piano	1
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Mus 211	Music Theory	3
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Mus 210	Sight Singing & Ear Training	2
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Mus 207	Applied Music Major	2
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Mus 231

OR

Mus 233	String/Percussion Techniques	1
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Mus 191

OR

Mus 151	Band or Orchestra	2
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Mus 240	Recital Attendance	Cr
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CORE	[Eng 281 or 282 Lit]	3
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Educ 200	Orientation to Educ II	1
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Educ 302	Exceptional Child	2
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CORE	[Econ 180 Amer Econ Sys]	3
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22

2nd Semester

Apply for admission to Teacher Education.

Mus 113	Class Piano	1
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Mus 212	Music Theory	3
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Mus 208	Applied Music Major	2
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Mus 232

OR

Mus 234	Brass/Wdwind Techniques	1
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Mus192

OR

Mus 152	Band or Orchestra	2
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Mus 240	Recital Attendance	Cr
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CORE	[Hist 110 U.S. History]	3
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CORE	[Bio 101 General Biology]	4
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CORE	[Comm 100 Oral Comm]	3
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Psy 305	Developmental Psychology	4
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23

Junior Year

1st Semester

Pass Media Competencies.

Mus 182	Conducting Techniques	2
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Mus 311	History of Music	3
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Mus 420	Form & Analysis	3
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Mus 407	Applied Music Major	2
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Mus 391

OR

Mus 351	Band or Orchestra	2
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Mus 240	Recital Attendance	Cr
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Educ 329	Ped Theo Meth & Prac	4
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Educ 321	Microteaching	2
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CORE	[Art 110 or Th 110]	3
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Educ 423	Classroom Management	2
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23

2nd Semester

Mus 444	Advanced Conducting	2
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Mus 312	History of Music	3
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Mus 408	Applied Music Major	2
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Mus 392

OR

Mus 352	Band or Orchestra	2
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Mus 240	Recital Attendance	Cr
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Mus 333	Music in Elem Grades	2
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Mus 431	Orchestration	3
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CORE	[PSc 120 Gov't: U.S./Sta/Loc]	3
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Educ 422	Tchng Rdng in Sec Sch	2
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19

Senior Year

1st Semester

Apply for admission to student teaching. All course work must be completed except Professional Semester courses.

Mus 391

OR

Mus 351	Band or Orchestra	2
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Mus 411	Marching Band Methods	2
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Mus 432	Music in Public School	2
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Mus 408	Applied Music Major	2
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Mus 450	Senior Recital	Cr
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Mus 240	Recital Attendance	Cr
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Psy 310	Educational Psychology	2
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CORE	[Phys 100 Fund Phys Sci]	5
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CORE	[Soc 342 Compar Cultures]	3
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Educ 401	Use of Comp Sftwr in Clsrm	
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	(or computer course approved by music dept.)	2
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CORE	[Hist 320 U.S. History]	3
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23

2nd Semester		
Mus 335	Tching Music in Sec Sch	2
Educ 402	Foundations of Educ	2
Educ 432	Critical Issues in Educ	2
Educ 412	Individual Curriculum Dev (2)	
OR		
Educ 420	Intro to Counseling (3)*	
OR		
Psy 412	Meas & Eval (2)	2-3
Educ 464	Student Teaching	8
		16-17

*Offered at night only, must be taken semester prior to student teaching.

[Department Recommendations]

For additional information contact:
Mr. Pete Havely
Office: Music Building 216
Phone: 625-9318

Paralegal Studies

Webster Hall 245, 625-9565

Faculty Tate - Head, Yates

The paralegal program is designed for the student seeking a career as a legal assistant working under the direction and supervision of an attorney in private practice, government service or legal aid. However, the knowledge and skills acquired in the paralegal program are beneficial to students in the areas of law enforcement, prelaw, business law and political science. Students who choose to learn more about the legal system and how to develop their own skills in legal research for personal enrichment are also encouraged to enroll.

No major or degree is now offered in paralegal studies, but a student enrolled in the paralegal program may obtain an associate of arts degree with an emphasis in paralegal studies. Paralegal studies may also be used as a minor for a bachelor of arts or bachelor of science degree. Students wishing to take only classes in paralegal studies may receive recognition for successfully completing 21 hours of course work. The required courses and suggested electives are listed under the requirements for the minor. Students must have an adviser in paralegal studies.

Minor in Paralegal Studies

		Semester Hours
PLS 201	Intro to Legal Assistance	3
PLS 302	Legal Research	3
Electives from the following:		15
PLS 298	Topics in Paralegal Studies	3
PLS 311	Property*	3
PLS 312	Civil Litigation*	3
PLS 320	Family Law*	3
PLS 401	Wills, Trusts and Probate*	3
GB 301	Legal Environment of Business I	3
GB 302	Legal Environment of Business II	3
PSc 310	Law, Society & Judicial Process	3
PSc 431	Constitutional Law I	3
PSc 432	Constitutional Law II	3
PLS 491	Internship**	3
PLS 498	Senior Seminar**	3
PLS 499	Independent Study**	3
OR One of the following:		
Comm 310	Communications Law	3
LE 250	Criminal Law	3
PSc 322	International Law	3
GB 411	Labor Law	3

*Highly Recommended

**See Prerequisites

Suggested Order of Study

Associate of Arts

Major Code 7999

Emphasis in Paralegal Studies

(This is a general associate of arts degree, NOT a paralegal degree)

Freshman Year

1st Semester		Hours
Course		
PLS 201	Intro to Legal Assistance	3
PLS 302	Legal Research	3
CORE	[Eng 101 Comp I]	3
CORE	[PSc 120 Gov't: U.S./Sta/Loc]	3
Psy 120	College Orientation	1
CORE	[HPER 103 Lifetm Wellness]	2
CORE	[HPER 101 Physical Activity]	1
		16

2nd Semester

CORE	[Eng 102 Comp II]	3
CORE	[Hist 110 or 120 U.S. Hist]	3
CORE	[Math 110 Intro to Col Math]	3
CORE	[Bio 101 General Biology]	4
PLS	Upper Division Electives	3
		16

Sophomore Year

1st Semester		
CORE	[Econ 180, Soc 110 or Psy 100]	3
CORE	[Phys 100 Fund of Phys Sci]	5
CORE	[Humanities and Fine Arts]	3
PLS	Upper Division Electives	6
		17

2nd Semester		
CORE	[Comm 100 Oral Comm]	3
CORE	[Literature]	3
CORE	[Humanities and Fine Arts]	3
PLS 491	Internship	3
PLS	Upper Division Elective	3
		15

[Department Recommendations]

Suggested electives are Civil Litigation; Family Law; Property; Wills, Trusts and Probate.

For additional information contact:

Dr. Michael Yates
Office: Webster Hall 234
Phone: 625-9333

Philosophy

Hearnes Hall 312, 625-9659

Faculty Spector - Head, Brown, Harder

Philosophy deals with basic questions from all areas of life and thought—science, religion, art, morality and politics—and helps students refine their views on these subjects. Most importantly, philosophy teaches students how to think: how to analyze problems into their essential elements, how to decide which proposed solution to a problem is supported by the best evidence, how to separate relevant from irrelevant points and how to state issues clearly and precisely. While some philosophy students go to graduate school and become professional philosophers, most go on to careers in such areas as law, medicine, theology, business, government and public service. Philosophy students are highly successful in gaining admittance to law schools, medical schools, graduate schools of management, and theological seminaries.

The department offers a minor in philosophy, which consists of 18 credit hours. Students are required to complete a course in Critical Thinking (Phil 140), a course in Ethics (Phil 212, PSc 411 or a suitable Selected Topics Course) and two courses in the History of Philosophy (Phil 301 and 302). Two courses are elective, at least one of which must be at the 300 level or above.

For additional information contact:

Dr. Stephen Spector
Office: Hearnes Hall 314
Phone: 625-9535

Physics and Pre-Engineering

Reynolds Hall 210, 625-9376

Faculty Baiamonte - Head, Knapp, Phillips, Sloan, Strobel

Physics graduates obtain a strong diversified background in science and mathematics which will qualify them to enter various areas of employment in industry, government or secondary education, or for entrance into graduate programs in physics and engineering. Students who plan to do graduate work in engineering should, with the help of a faculty adviser, select their free electives in the area they plan to enter.

The physics area of the physical science department participates in cooperative two-year pre-engineering programs which allow students to complete the first two years of an engineering degree at Missouri Southern and then transfer to an engineering school to complete the remaining two years of the degree. (See page 155).

Bachelor of Science with a Major in Physics

	Semester Hours
Core Requirements (p. 35) 51*	43
Physics Requirements	36
Phys 250 General Physics I**	5
Phys 260 General Physics II**	5
Phys 301 Modern Physics**	4
Phys 322 Classical Mechanics**	3
Phys 341 Thermal Physics**	4
Phys 372 Electronic Circuits**	4
Phys 381 Intermediate Physics Laboratory**	3
Phys 401 Electricity & Magnetism**	4
Phys 452 Quantum Mechanics**	4
OR	
Phys 480 Selected Topics in Physics & Engineering	3
Phys 498 Seminar	1
Supporting Requirements	26
Chem 101 General Chemistry I**	5
Math 150 Calculus with Analytical Geometry I**	5
Math 250 Calculus with Analytical Geometry II**	5
Math 260 Calculus with Analytical Geometry III**	5
Math 322 Differential Equations**	3
Comp 120 Fortran	3
Electives***	23
	128****

*Required physics, chemistry and mathematics courses satisfy major requirements and 8 hours of the Core Curriculum.

**See Prerequisites

***Suggested Electives (Chem 102, Comp 200, Math 351, Math 431 and Phys 480)

****Must include at least 40 upper division (300 - 400 level) hours.

Bachelor of Science in Education with a Major in Physics

Grades 7-12 Certification

Plan A One of Two Teaching Fields

	Semester Hours
Core Requirements (p. 35) 51*	36
Physics Requirements	22
Phys 250 General Physics I**	5
Phys 260 General Physics II**	5
Phys 301 Modern Physics**	4
Phys 322 Classical Mechanics**	3
Phys 381 Intermediate Physics Laboratory**	3
Phys 498 Seminar	2
Supporting Requirements	31
Chem 101 General Chemistry I**	5
Geol 300 Environmental Geology	4
Bio 101 General Biology	4
Math 150 Calculus with Analytical Geometry I**	5
Math 250 Calculus with Analytical Geometry II**	5
Math 260 Calculus with Analytical Geometry III**	5
Comp 115 Computing I or higher (in place of Educ 401)	3
Education Certification Requirements (see p. 115-127)	39
Second Teaching Field (some fields exceed 30 hours)	30
	158***

*Required physics, chemistry, mathematics, biology and psychology courses satisfy major requirements and 15 hours of the Core Curriculum.

**See Prerequisites

***Varies with 2nd field

Bachelor of Science in Education with a Major in Physics

Grades 7-12 Certification

Plan B Single Teaching Field

	Semester Hours
Core Requirements (p. 35) 51*	36
Physics Requirements	33
Phys 250 General Physics I**	5
Phys 260 General Physics II**	5
Phys 301 Modern Physics**	4
Phys 312 Statics**	3

Phys 322	Classical Mechanics**	3
Phys 341	Thermal Physics**	4
Phys 372	Electronic Circuits	4
Phys 381	Intermediate Physics Laboratory**	3
Phys 498	Seminar	2
Supporting Requirements		36
Chem 101	General Chemistry I**	5
Chem 102	General Chemistry II**	5
Bio 101	General Biology	4
Geol 300	Environmental Geology	4
Math 150	Calculus with Analytical Geometry I**	5
Math 250	Calculus with Analytical Geometry II**	5
Math 260	Calculus with Analytical Geometry III**	5
Comp 115	Computing I or higher (in place of Educ 401)	3
Education Certification Requirements (p. 115-127)		39
		144

*Required physics, chemistry, mathematics, biology and psychology courses satisfy major requirements and 15 hours of the Core Curriculum.

**See Prerequisites

***Suggested Electives (Math 322, Phys 300 and Geol 110)

Minor in Physics

		Semester Hours
Phys 250	General Physics I	5
Phys 260	General Physics II	5
Physics	Upper Division Electives (excluding Phys 300)	8
		18

Suggested Order of Study

Bachelor of Science Major Code 1902 Physics Major

Freshman Year

1st Semester		
Course		Hours
Math 150	Calculus I	5
Chem 101	Gen Chem I (Alg & Trig)	5
CORE	[Eng 101 Comp I]	3
Phys 140	Essential Skills in Physics	3
Psy 120	College Orientation	1
		17

2nd Semester

Phys 250	Gen Physics I (Math 150)	5
Math 250	Calculus II (Math 150)	5
Elective	[Chem 102 General Chem II]	5
CORE	[Eng 102 Comp II]	3
		18

Sophomore Year

1st Semester		
Phys 260	Gen Physics II (Phys 250)	5
Math 260	Calculus III (Math 250)	5
Comp 120	Fortran	3
CORE	[Hist 110 U.S. History]	3
CORE	[HPER 103 Lifetm Wellness]	2
		18

2nd Semester

Phys 322	Classical Mechanics (3)	
OR		
Phys 341	Thermal Physics (4)	3-4
Phys 372	Electronic Circuits	4
Math 322	Differential Equations	3
CORE	[Hist 120 or 320 U.S. Hist]	3
CORE	[Econ 180 Amer Econ Sys]	3
CORE	[HPER 101 Physical Activity]	1
		17-18

Junior Year

1st Semester		
Phys 301	Modern Physics	4
Phys 381	Intermediate Physics Lab (3)	
OR		
Phys 401	Electricity & Magnetism (4)	3-4
CORE	[Bio 101 General Biology]	4
CORE	[Humanities and Fine Arts]	3
CORE	[Psy 100 Gen Psychology]	
OR		
CORE	[Soc 110 Sociology]	3
		17-18

2nd Semester

Phys 341	Thermal Physics (4)	
OR		
Phys 322	Classical Mechanics (3)	4-3
Phys 452	Quantum Mechanics	
OR		
Phys 480	Selective Topics	3
Math	Elective	3
CORE	[Comm 100 Oral Comm]	3
CORE	[Humanities and Fine Arts]	3
		16-15

Senior Year

1st Semester		
Phys 401	Electricity & Magnetism (4)	
OR		
Phys 381	Intermediate Phys Lab (3)	4-3
CORE	[Humanities and Fine Arts]	3
CORE	[PSc 120 Gov't: U.S./Sta/Loc]	3
Phys or Math	Elective	3
Electives		3
		16-15

2nd Semester

Phys 452	Quantum Mechanics	
OR		
Phys 480	Selective Topics	3
Phys 498	Seminar	1
CORE	[International Cultural Stu]	3
Electives		9
		16

(Prerequisites)
[Department Recommendations]

Students should enroll in Comp 120 Computing II before the junior year.

For additional information contact:

Dr. Russell Phillips
Office: Reynolds Hall 208
Phone: (417) 625-9719

Bachelor of Science in Education

Major Code 0848

Physics Major (Plan B) Grades 7-12 Certification Single Teaching Field

Freshman Year

1st Semester		
Course		Hours
Psy 100	General Psychology	3
Math 150	Calculus I	5
CORE	[Eng 101 Comp I]	3
Phys 140	Essential Skills in Physics	3
Psy 120	College Orientation	1
Educ 100	Orientation to Educ I	1
CORE	[HPER 103 Lifetm Wellness]	2
		18

2nd Semester

Chem 101	General Chemistry I	5
Math 250	Calculus II (Math 150)	5
CORE	[Eng 102 Comp II]	3
Phys 250	Gen Physics I (Math 150)	5
		18

Summer Session

Chem 102	General Chemistry II	5
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Sophomore Year

1st Semester		
<i>Take C-Base Test.</i>		
Math 260	Calculus III (Math 250)	5
Phys 260	Gen Physics II (Phys 250)	5
Geol 300	Environmental Geology	4
Educ 200	Orientation to Educ II	1
Psy 301	Adolescent Psychology	3
		18

2nd Semester

<i>Apply for admission to Teacher Education.</i>		
Phys 372	Electronic Circuits	4
Phys 322	Classical Mechanics (3)	
OR		
Phys 341	Thermal Physics (4)	3-4
Educ 302	The Exceptional Child	2
CORE	[Comm 100 Oral Comm]	3
Comp 115	Computing I or higher	3
CORE	[HPER 101 Physical Activity]	1
		16-17

Summer Session

Phys 312	Statics	3
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Junior Year

1st Semester		
<i>Pass Media Competencies.</i>		
Bio 101	General Biology	4
Phys 301	Modern Physics	4
Educ 321	Microteaching	2
Educ 329	Ped Theo Meth & Prac	4
Psy 310	Educ Psychology (Psy 100)	2
Educ 423	Classroom Management	2
		18

2nd Semester

Apply for student teaching. All course work must be completed except for Professional Semester courses.

Phys 341	Thermal Physics (4)	
OR		
Phys 322	Classical Mechanics (3)	4-3
CORE	[Humanities and Fine Arts]	3
CORE	[Humanities and Fine Arts]	3
CORE	[PSc 120 Gov't: U.S./Sta/Loc]	3
Educ 422	Tchng Rdng in the Sec Sch	2
CORE	[Hist 110 U.S. History]	3
		17-18

Senior Year

1st Semester		
Phys 381	Intermediate Physics Lab	3
Phys 498	Seminar	2
CORE	[Econ 180 Amer Econ Sys]	3
CORE	[Humanities and Fine Arts]	3
CORE	[Hist 120 or 320 U.S. Hist]	3
CORE	[International Cultural Stu]	3
		17

2nd Semester

Educ 333	Tchng Sci in Sec Sch	3
Educ 402	Foundations of Educ	2
Educ 432	Critical Issues	2
Educ 462	Student Teaching Sec	8
Select One:		
Educ 412	Indiv Curr Development (2)	
Educ 420	Intro to Counseling* (3)	
Psy 412	Meas & Eval (2)	2-3
		17-18

*Offered at night only. Must be taken semester prior to student teaching.

(Prerequisites)
[Department Recommendations]

For additional information contact:

Dr. Russell Phillips
Office: Reynolds Hall 208
Phone: 625-9719

Political Science

Webster Hall, 625-9565

Faculty Tate - Head, St. Clair, Simpson, Yates, Youst

The bachelor of arts degree with a major in political science is appropriate for those students seeking to do graduate work in political science, enter professional schools of law or public administration, join the public service or work in community service as well as general career options. A bachelor of science in education degree with a major in social studies - political science emphasis - certifies a student to teach on the secondary school level. A minor in political science is available for students majoring in other dis-

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ciplines. In addition, see page 77 for a social science minor or the social studies in secondary education minor.

Core Curriculum requirements and Missouri statute requirements are met by PSc 120.

PSc 120 is a prerequisite for all other political science courses.

Bachelor of Arts with a Major in Political Science

	Semester Hours
Core Requirements (p. 35) 51*	48
Computer Literacy Requirement - determined by social science department	2-3
Foreign Language (four courses in one language)	12
Political Science Requirements	36
PSc 120 Gov't: U.S./State/Local	3
PSc 201 Intro to Pol Sci Methods	3
PSc 498 Seminar in Political Science	
OR	
PSc 497 Capital Internship	3
Select one course from each of the following four areas:	12
U.S. Politics (3)	
PSc 301 Political Parties & Elections	
PSc 302 Public Opinion & Pressure Groups	
PSc 311 American Presidency	
PSc 312 Legislative Process	
State and Local Government (3)	
PSc 320 State Government	
PSc 341 Municipal Government	
PSc 342 Public Policy	
PSc 421 Public Administration	
International Politics (3)	
PSc 321 International Relations	
PSc 331 Comparative Government: Europe	
PSc 332 Comparative Government: Latin America	
PSc 411 Political Theory	
PSc 412 Contemporary Political Thought	
Law (3)	
PSc 310 Law, Society and the Judicial Process	
PSc 322 International Law	
PSc 431 Constitutional Law I	
PSc 432 Constitutional Law II	
Political Science Electives**	15
Electives	29-30
	128***

*Political Science 120 satisfies major requirements and 3 hours of Core Curriculum.

**See Prerequisites

***Must include at least 40 upper division (300 - 400 level) hours.

Bachelor of Science in Education with a Major in Social Studies

Political Science Emphasis Grades 7-12 Certification

Plan B Single Teaching Field

	Semester Hours
Core Requirements (p. 35) 51*	33
Political Science Requirements	15
PSc 120 Gov't: U.S./State/Local	3
PSc Upper Division Electives	12
Supporting Requirements	36
Hist 110 U.S. History 1492-1877	3
Hist 120 U.S. History 1877-Present	
OR	
Hist 320 U.S. History 1877-Present	3
Hist 130 Western Civilization to 1660	3
Hist 140 Western Civilization Since 1660	3
Hist Upper Division U.S.** (not 320)	6
Hist Upper Division East Asian**	3
Soc 110 Intro to Sociology	3
Soc Upper Division Elective**	3
Geog 211 Regions and Nations	3
Geog Upper Division Elective	3
Econ 180 Amer Econ System	3
Electives	3-4
Education Certification Requirements (p. 115-127)	40-41
	128

*Required political science, history, sociology and economics courses satisfy major requirements and 18 hours of Core Curriculum.

**See Prerequisites

Minor in Political Science

	Semester Hours
PSc 120 Gov't: U.S./State/Local	3
PSc Electives*	18
	21

*Must be chosen with approval of a political science adviser.

Suggested Order of Study

Bachelor of Arts Major Code 2207 Political Science Major

Freshman Year

1st Semester	Course	Hours
	Foreign Language	3
	CORE [Eng 101 Comp I]	3
	CORE [Hist 110 U.S. 1492-1877]	3
	CORE [Math 110 Intro to Col Math]	3
	CORE [Comm 100 Oral Comm]	3
	Psy 120 College Orientation	1
		16

2nd Semester		
	Foreign Language	3
	CORE [Eng 102 Comp II]	3
	CORE [Hist 120 U.S. 1877-Present]	
	OR	
	CORE [Hist 320 U.S. 1877-Present]	3
	CORE [Bio 101 General Biology]	4
	CORE [Humanities and Fine Arts]	3
		16

Sophomore Year

1st Semester		
	PSc 120 Gov't: U.S./State/Local	3
	CORE [English Lit]	3
	Foreign Language	3
	CORE [Phys 100 Fund of Phys Sci]	5
	CORE [HPER 103 Lifetm Wellness]	2
	CORE [HPER 101 Physical Activity]	1
		17

2nd Semester

	CORE [Econ 201 Prin of Econ-Macro]	3
	PSc [Upper Division Elective approved by adviser]	3
	Foreign Language	3
	CORE [Soc 110 Intro to Sociology]	3
	Electives	5
		17

Junior Year

1st Semester		
	PSc [Upper Division]	6
	CORE [International Cultural Stu]	3
	[Computer Literacy course selected with adviser's approval]	3
	CORE [Humanities and Fine Arts]	3
		15

2nd Semester

	PSc [Upper Division]	9
	Electives	8
		17

Senior Year

1st Semester		
	PSc [Upper Division Electives]	9
	Electives [Upper Division]	6
		15

2nd Semester

	PSc [Upper Division Elective]	6
	Electives [Upper Division]	10
		16

*Also meets a Core Curriculum requirement. [Department Recommendations]

For additional information contact:

Dr. Donald R. Youst

Office: Webster Hall 232

Phone: 625-9795

Preprofessional

Police Academy 101, 625-9328

Associate of Arts Degree

This curriculum is designated for Missouri Southern students to complete admission requirements for professional schools that will accept applicants who have completed approximately 60 hours. Also, students who are completing certification requirements for paramedic programs and desire a college degree may choose this degree program.

Prepharmacy

Major Code 7007

Core Requirements* (p. 35)	14
Eng 101 and 102 English Comp**	6
Chem 101 and 102 General Chemistry**	10
Math 150 Calculus**	5
Social Sciences/Humanities**	14
Bio 306 Human Physiology and Anatomy	5
Electives	10
	64

*28 hours of Core requirements are met by UMKC School of Pharmacy minimum requirements.

**UMKC School of Pharmacy minimum requirements.

Sociology

Webster Hall 245, 625-9565

Faculty Tate - Head, Conboy, Gubera, Jordan, Miller

A bachelor's degree with a major in sociology prepares the student for a variety of occupations and graduate programs. Selecting from three bachelor's degree programs including a bachelor of science in education, the student may choose to pursue many careers, for example, those in human and social services, public safety occupations or teaching. Advanced graduate or professional school training could also be a choice for the student who successfully completes one of the bachelor degree programs. A sociology minor with an emphasis in social work is offered with classes focus-

ing on human and social services. In addition, a sociology minor provides students majoring in other areas with special interpersonal, group and organizational knowledge and skills.

See page 77 or a minor in social sciences or the social studies in secondary education minor.

Sociology 110 is a prerequisite to many upper division courses in sociology.

Certain sociology courses may be used to satisfy Core Curriculum requirements. Sociology 110 is an elective for the requirement in Area 3C, Natural and Behavioral Sciences; either Sociology 155 or 342 meet the requirement in Area 5, International Cultural Studies.

Bachelor of Arts with a Major in Sociology

	Semester Hours
Core Requirements (p. 35) 51*	45
Computer Literacy Requirement - determined by social sciences department	2-3
Foreign Language (four courses in one language)	12
Sociology Requirements	30
Soc 110 Intro to Sociology	3
Soc 210 Social Problems**	3
Soc 311 Social Stratification**	3
Soc 342 Comparative Cultures**	3
Soc 431 Sociological Research Methods**	3
Soc 482 Sociological Theory**	3
Soc Electives (3 hrs. must be upper division)	12
Psy 311 App Stat**	
OR	
Math 310 Elementary Statistics**	3
Supporting Area (approved by sociology adviser)***	15
Electives	20-21
	128****

*Required sociology course Soc 110 and 342 satisfies six hours of Core Curriculum requirements.

**See Prerequisites

***A minor is highly recommended.

****Must include at least 40 upper division (300 - 400 level) hours.

Bachelor of Science with a Major in Sociology

	Semester Hours
Core Requirements (p. 35) 51*	45
Sociology Requirements	36
Soc 110 Intro to Sociology	3
Soc 155 Physical Anthropology & Archaeology	3
Soc 311 Social Stratification**	3
Soc 362 Deviant Behavior**	3
Soc 431 Social Research Methods**	3
Soc 482 Sociological Theory**	3
Soc Electives (emphasis in upper division)	18
Supporting Requirements	12
Comp 105 Intro to Micro Use	3
Soc 300 Computer Applications for the Soc Sci	3
Psy 320 App Stat for Behavioral & Natural Sciences**	
OR	
Math 310 Elementary Statistics**	3
Geog Elective	3
Electives	35
	128***

*Required Sociology course 110 and Soc 342 satisfies six hours of Core Curriculum requirements.

**See Prerequisites

***Must include at least 40 upper division (300 - 400 level) hours.

Bachelor of Science in Education with a Major in Social Studies

Sociology Emphasis
Grades 7-12 Certification
Plan B Single Teaching Field

	Semester Hours
Core Requirements (p. 35) 51*	33
Sociology Requirements	21
Soc 110 Intro to Sociology	3
Soc 221 Marriage and Family	3
Soc 210 Social Problems**	3
Soc 342 Comparative Cultures**	3
Soc Electives (6 hours upper division)**	9
Supporting Requirements	36
Hist 110 U.S. History 1492-1877	3
Hist 120 U.S. History 1877-Present	
OR	
Hist 320 U.S. History 1877-Present	3
Hist 130 Western Civilization To 1660	3
Hist 140 Western Civilization From 1660	3
Hist Upper Division	
U.S. Electives** (not 320)	6

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Hist	Upper Division	
	East Asian Elective**	3
Geog 211	Regions and Nations	3
Geog	Upper Division Elective	3
PSc 120	Gov't; U.S./State/Local	3
PSc	Upper Division Elective**	3
Econ 180	Amer Econ System	3

Education Certification Requirements (p. 115-127) 40-41 130-131

*Required courses in history, political science, sociology and economics satisfy major requirements and 18 hours of Core Curriculum.

**See Prerequisites

Minor in Sociology

	Semester	Hours
Soc 110	Intro to Sociology	3
Soc	Electives*	6
Soc	Electives - Upper Division*	12
		21

*Select with prior approval of a sociology adviser. See prerequisites where applicable.

Minor in Sociology with Emphasis in Social Work

	Semester	Hours
Soc 110	Intro to Sociology	3
Soc 221	Marriage and Family	3
Soc 210	Social Problems*	3
Soc 306	Sociology of Aging*	3
Soc 331	Intro to Social Work I*	3
Soc 332	Intro to Social Work II**	3
Soc 496	Internship**	3
		21

*See Prerequisites

**Admission dependent on departmental committee approval.

Suggested Order of Study

Bachelor of Arts

Major Code 2208

Sociology Major

Freshman Year

1st Semester	Course	Hours
Soc 110	Intro to Sociology*	3
CORE	[Eng 101 Comp I]	3
CORE	[Hist 110 U.S. 1492-1877]	3
CORE	[Humanities and Fine Arts]	3
Foreign Language		3
Psy 120	College Orientation	1
		16

2nd Semester	Course	Hours
Foreign Language		3
CORE	[Eng 102 Comp II]	3
CORE	[PSc 120 Gov't: U.S./Sta/Loc]	3
CORE	[Econ 180 Amer Econ Sys]	3
CORE	[Bio 101 General Biology]	4
		16

Sophomore Year

1st Semester	Course	Hours
Soc 210	Social Problems**	3
Foreign Language		3
CORE	[Humanities and Fine Arts]	3
CORE	[Math 110 Intro to Col Math]	3
CORE	[Comm 100 Oral Comm]	3
		15

2nd Semester	Course	Hours
Soc	Elective	3
Foreign Language		3
CORE	[Phys 100 Fund of Phys Sci]	5
CORE	[Hist 120 U.S. History 1877-Present]	3
OR		
CORE	[Hist 320 U.S. History 1877-Present]	3
		14

Junior Year

1st Semester	Course	Hours
Soc 311	Social Stratification**	3
Soc 342*	Comparative Cultures**	3
CORE	[English Lit]	3
Psy 320	App Stat** (Psy 311 or Math 310)	3
CORE	[HPER 101 Physical Activity]	1
CORE	[HPER 103 Lifetm Wellness]	2
		15

2nd Semester	Course	Hours
Supporting Area [A minor is suggested]		5
Comp 105	[Computing I]	3
Electives		8
		16

Senior Year

1st Semester	Course	Hours
Soc 431	Sociological Res Methods**	3
Soc	[Upper Division Elective]	3
Supporting Area [A minor is suggested]		4
Soc	Electives	3
Elective		3
		16

2nd Semester	Course	Hours
Soc 482	Sociological Theory**	3
Supporting Area [A minor is suggested]		6
Electives		7
		16

*Also meets a Core Curriculum requirement

**Prerequisites

[Department Recommendations]

The student is to select a supporting area in consultation with a sociology adviser.

Bachelor of Science

Major Code 2220

Sociology Major

Freshman Year

1st Semester	Course	Hours
Soc 110	Intro to Sociology*	3
CORE	[Eng 101 Comp I]	3
CORE	[Hist 110 U.S. 1492-1877]	3
CORE	[Econ 180 Amer Econ Sys]	3
Elective		3
Psy 120	College Orientation	1
		16

2nd Semester	Course	Hours
Soc 155	Phys Anthrop & Arch	3
CORE	[Eng 102 Comp II]	3
CORE	[PSc 120 Gov't: U.S./Sta/Loc]	3
CORE	[Comm 100 Oral Comm]	3
CORE	[Phys 100 Fund of Phys Sci]	5
		17

Sophomore Year

1st Semester	Course	Hours
Soc	Elective with approval of adviser	3
CORE	[Math 131 Finite Math]	3
CORE	[English Lit]	3
Geog	Elective**	3
CORE	[Bio 101 General Biology]	4
		16

2nd Semester	Course	Hours
Soc	Elective	3
CORE	[Humanities and Fine Arts]	3
Elective		3
CORE	[HPER 103 Lifetm Wellness]	2
Elective	[A minor is suggested]	6
		17

Junior Year

1st Semester	Course	Hours
Soc 311	Social Stratification***	3
CORE	[Soc 342 Compar Cultures]	3
Comp 105	Computing I	3
CORE	[Humanities and Fine Arts]	3
CORE	[Hist 120 U.S. 1877-Present]	3
OR		
CORE	[Hist 320 U.S. 1877-Present]	3
CORE	[HPER 101 Physical Activity]	1
		16

2nd Semester	Course	Hours
Soc 362	Deviant Behavior***	3
Soc	Elective	3
Electives	[A minor is suggested]	7
Psy 320	App Stat or Math 310***	3
		16

Senior Year

1st Semester	Course	Hours
Soc 431	Soc Research Methods**	3
Soc	Electives	6
Elective	[A minor is suggested]	6
		15

2nd Semester	Course	Hours
Soc 482	Sociological Theory***	3
Soc 300	Computer App in Soc Sci***	3
Electives	[A minor is suggested]	9
		15

*Also meets a Core Curriculum requirement

**Select from Geography 211, 311 or 322.

***Prerequisites

[Department Recommendations]

The student is to select a minor in consultation with a sociology adviser.

For additional information contact:

Dr. Conrad Gubera
Office: Webster Hall 228
Phone: 625-9653

Social Science

Webster Hall 245, 625-9565

Faculty Tate - Head, Conboy, Gubera, Holman, Jordan, Krueger, Laas, Markman, Miller, St. Clair, Sale, Simpson, Smith, Tannebaum, Teverow, Yates, Youst

Within the social sciences are the disciplines of geography, history, paralegal studies, political science and sociology.

Each discipline focuses on the study of some aspect or aspects of human societies: their history, government, social organization, laws, physical environment and/or cultural heritage. Students who major or minor in the social sciences prepare for a variety of graduate programs or careers, for example, in teaching, government, law, historic preservation, business, health and human services. Internships are especially helpful in establishing career objectives and obtaining practical knowledge. Social sciences students may apply for internships at the George Washington Carver National Monument, the Dorothea B. Hoover Historical Museum, as a social work minor, a paralegal studies minor, a political science minor, or a sociology major. Also, Missouri State Internships are available.

To satisfy the college-wide computer literacy requirements, the social science faculty suggests students complete Comp 105 Introduction to Microcomputer Use. Other computer literacy requirements apply to the bachelor of science with a major in sociology and to the bachelor of science in education with a major in social studies.

Minors are offered in each of the disciplines within the social sciences. Two general social science minors are also available: a social science minor and a social studies for secondary education minor which qualifies students to teach in junior high and middle schools.

Minor in Social Science

		Semester Hours
Hist 110	U.S. History	3
Hist 120	U.S. History	
OR		
Hist 320	U.S. History	3
PSc 120	Gov't: U.S./State/Local	3
Geog	Elective	3
Soc	Elective (100 - 200 level)	3
Select three (3) social science courses at the 300 - 400 level (other than Hist 320)		9

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Nine hours of these requirements apply to the Core Curriculum.

Minor in Social Studies for Secondary Education Certification for Grades 7, 8, 9

This minor meets social studies requirements for certifying secondary education majors to teach grades 7 through 9. Students electing this minor must have a social sciences faculty adviser.

Social Studies

		Semester Hours
Hist 110	U.S. History	3
Hist 120	U.S. History	
OR		
Hist 320	U.S. History	3
Elective in American History		3
PSc 120	Gov't: U.S./State/Local	3
Hist 130	Western Civilization	3
Hist 140	Western Civilization	3
Econ 180	Amer Econ System	3
Geog 211	Regions and Nations	3

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Programs and Degree Offerings

See Geography (p. 61); History, (p. 62); Paralegal Studies, (p. 71); Political Science, (p. 73); and Sociology, (p. 75) for specific degree requirements, minors, A.A. paralegal program and suggested orders of study.

Theatre

Taylor Auditorium 243, 625-9393

Faculty Fields - Head, Claussen, D. Hunt, Jaros

Specialized theatre training provides students with a broad academic background that can lead to a number of careers. Graduates of the Missouri Southern theatre department are currently employed in fields such as:

Theatre Performance/Design
Television Production/Performance
Commercials
Public Relations
Stage Management
Graduate Study
Executive Leadership
Recreational Directorship
Technical Theatre
Personnel Management
Government Service
Fashion Industry
TV Anchor

Film Cartoon Director
Ministry
Magician

Factors Unique to Theatre Department:

1. hands-on experience for students in acting, house and stage management, directing and technical design-execution;
2. a children's theatre play program performing for over 12,000 people annually from the four state area;
3. play participation open to all Southern students, faculty and staff;
4. theatre faculty members who have professional experience in their teaching specialties;
5. a modern, well-equipped mainstage theatre as well as flexible space for studio productions;
6. two theatre organizations: College Players and Alpha Psi Omega, a national dramatic honorary fraternity.

The theatre department offers a bachelor of arts degree with a major in theatre and a bachelor of science in education degree with a major in theatre/speech (plan B). A minor in theatre is also available. During their senior year, all majors must take a final exam covering all areas of the theatre and present a creative exiting project in addition to participating in the college general assessment program.

To satisfy the college-wide computer literacy requirement, theatre majors earning a B.A. should complete Comp 105 or above. Those earning a B.S.E. must take Educ 401.

It is recommended that students pursuing a degree in theatre meet with their faculty adviser at least twice each semester, once in addition to planning their next semester's schedule. More detailed information is available in the theatre office, 243 Taylor Performing Arts Center.

Core Curriculum requirement in Area 2 Humanities and Fine Arts is fulfilled by Th 110 (Theatre Appreciation).

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Bachelor of Arts with a Major in Theatre

	Semester Hours
Core Requirements (p. 35) 51*	42
Computer Literacy Requirement	
Comp 105 or above	3
Foreign Language (four courses in one language)	12
Theatre Requirements	46
Th 121, 122, 221, 222 Theatre Laboratory (Select two)	4
Th 142 Theatre Technology	3
Th 231 Speech for Stage	3
Th 232 Costume Technology	3
Th 233 Stage Makeup	3
Th 241 Acting I	3
Th 331 History of the Theatre	3
Th 332 History of the Theatre	3
Th 341 Acting II**	3
Th 351 Directing I	3
Th 362 Stage Costume Design	3
Th 320 Lighting Design	3
OR	
Th 361 History of Costume	
OR	
Th 372 Directing II	3
Th 422 Acting III**	3
OR	
Th 431 Creative Dramatics	3
Th 441 Stage Design	3
Th Electives	3***
Supporting Requirements	9
Art 110 Art Appreciation	3
Mus 110 Music Appreciation	3
Hist 130 OR 140 Western Civ.	3
Electives	16
	128****

*In addition to meeting major requirements, Art 110 and Music 110 satisfy the Core Curriculum requirements in Areas 2A and 2C and Hist 130 or 140 satisfies the requirements in Area 5A.

**See Prerequisites

***A total of 40 upper division hours (300-400) are required, 24 specified in theatre and 16 electives in these areas. One upper division course must be selected from Area 4 or 5 of the Core Curriculum.

****Three writing intensive (WI) courses in addition to English composition must be included. Two of these must be upper division courses and one of the two must be in theatre.

Bachelor of Science in Education with a Major in Theatre/Speech Communications

	Semester Hours
Grades 7-12 Certification Plan B	
Single Teaching Field	
Core Requirements (p. 35) 51*	48
Computer Literacy Requirements - Educ 401	2
Theatre Requirements	17
Th 121 or 122 or 221 or 222 Theatre Laboratory	2
Th 142 Theatre Tech	3
Th 212 Oral Interpretation	3
Th 241 Acting I	3
Th 331 History of Theatre (WI)	3
OR	
Th 332 History of Theatre	3
Th 351 Directing I**	3
Communication Requirements	12
Comm 101 Intro to Human Comm	3
Comm 215 Interpersonal Comm**	3
Comm 304 Small Group Comm	3
Comm 315 Argumentation and Debate**	3
Theatre or Speech Communication Electives***	11
Education Certification Requirements (p. 115-127)	38-39
Electives	3
	131-132

*Required course in psychology counts 3 hours toward Core Curriculum requirements, Area 3C.

**See Prerequisites

***Must be approved in advance by the student's adviser who must be selected from either the area of speech communication or theatre.

Minor in Theatre

	Semester Hours
Th 121, 122, 221, 222 Theatre Laboratory (Select two)	4
Th 110 Theatre Appreciation	3
Choose a total of 11 hours from the following list of classes:	11*
Th 142 Theatre Technology	3
Th 212 Oral Interpretation	3
Th 233 Stage Makeup	3
Th 231 Speech for Stage	3
Th 251 Audition Techniques for the Actor	1
Th 232 Costume Technology	3
Th 311 Stage Management	3
Th 241 Acting I	3
Th 298 Explorations in Theatre (when offered)	3
Th 320 Stage Lighting**	3
Th 331 Theatre History (WI)	3
Th 332 Theatre History	3
Th 333 Eastern Theatre Tradition	3
Th 341 Acting II**	3

Th 351	Directing I	3
Th 361	History of Costume	3
Th 362	Stage Costume Design	3
Th 372	Directing II**	3
Th 422	Acting III**	3
Th 441	Stage Design	3
		18

*All courses must be selected with adviser approval. Six hours must be upper division.

**See Prerequisites

Suggested Order of Study

Bachelor of Arts Major Code 1007 Theatre Major

Freshman Year

1st Semester		Hours
Course		
Th 121	Theatre Lab	2
Th 231	Speech For Stage	3
Th 233	Stage Makeup	3
CORE	[Eng 101 Comp I]	3
CORE	[HPER 103 Lifetm Wellness]	2
CORE	[Comm 100 Oral Comm]	3
Psy 120	College Orientation	1
		17

2nd Semester

Th 142	Theatre Tech	3
Th 241	Acting I	3
CORE	[Hist 140 West Civ]	3
CORE	[Eng 102 Comp II]	3
CORE	[Math 110 or above]	3
		15

Sophomore Year

1st Semester		
Th 341	Acting II*	3
Th 221	Theatre Lab	2
Comp 105	or above Computer Literacy Requirement	3
CORE	[Area 2-A Elective]	3
CORE	[English Literature Choice]	3
CORE	[Hist 110 U.S. 1492-1877]	3
CORE	[HPER 101 Physical Activity]	1
		18

2nd Semester

Th 422	Acting III*#	3
Th 232	Costume Tech	3
Th	Elective	3
Art	Elective (support req)	3
CORE	[Area 2-C Elective]	3
CORE	[Psy 100 or Soc 110]	3
		18

Junior Year

1st Semester		
Th 212	Oral Interpretation	3
Th 441	Stage Design*	3
Th	Electives	4
CORE	[Bio 101 General Biology]	4
Foreign Language		3
		17

2nd Semester

Th 362	Stage Costume Design	3
CORE	[Hist 120 U.S. 1877-Pres]	3
CORE	[Phys 100 Physical Science]	5
Foreign Language		3
CORE	[Econ 180 Amer Econ Sys]	3
		17

Course Descriptions

Art (Art)

Art 101 (F and/or S) 3 hrs. cr.

Basic Design

Foundation studio course using design principles and elements of structure. Six studio hrs. per week.

Art 105 (F and/or S) 3 hrs. cr.

Design and Color Theory

Foundation studio course dealing with the theories, problems and applications of color. Six studio hrs. per week.

Art 110 (F, S) 3 hrs. cr.

Art Appreciation

A survey designed to increase appreciation of the visual arts through readings, slide lectures, library research and visits to the Spiva Art Center. Development of the cognitive and critical processes as they relate to the visual arts are emphasized. Specially recommended toward meeting Core Curriculum requirements for non-art majors.

Art 120 (F and/or S) 3 hrs. cr.

Beginning Ceramics

Methods and techniques of throwing and/or hand building with application of glazing and firing. Six studio hrs. per week. Lab fee required.

Art 130 (F and/or S) 3 hrs. cr.

Beginning Drawing

Development of perceptual drawing skills through the study of line, value, perspective, composition and reduction of form using various media. Six studio hrs. per week.

Art 200 (F or S) 3 hrs. cr.

Arts & Crafts

Basic crafts survey exploring materials and processes of traditional and contemporary handicrafts.

Art 205 (F and/or S) 3 hrs. cr.

Beginning Jewelry Design/Metalsmithing

Creative exploration of design fabrications, casting and forging processes. Six studio hrs. per week. Lab fee required. Prerequisite: Art 101 and/or Art 105 or approval of instructor.

Art 211 (F and/or S) 3 hrs. cr.

Beginning Sculpture

Exploration of forming methods involving wood, clay, plaster and mixed media with emphasis on additive and subtractive techniques. Six studio hrs. per week. Lab fee required. Prerequisite: Art 105 and/or Art 230, or approval of instructor.

Art 220 (F, S) 2 hrs. cr.

Art Education

Creative art activities using media and processes with emphasis on methods of instructing art in elementary school. Required for both elementary education majors and secondary art education majors.

Senior Year

1st Semester

Th 320	Lighting Design#	3
Th 331	History of Theatre	3
Th 351	Directing I	3
Foreign Language		3
Elective	[Eng or Th]	3
		15

2nd Semester

Th 332	History of Theatre	3
Th 372	Directing II*#	3
Foreign Language		3
CORE	[PSc 120 Gov't: U.S./Sta/Loc]	3
Elective	[Eng or Th]	3
		15

[Department Recommendations]

*See prerequisites

#May be substituted for approved class in tech or acting area

Supporting Electives:

Accounting, Art, Business, Communications, English, Music, Computer Science

For additional information contact:

Dr. Jay Fields

Office: Taylor Performing Arts Center 243

Phone: 625-9393

Bachelor of Science in Education

Major Code 0844

Speech and Theatre

Grades 7-12 Certification

Theatre Emphasis

Plan B

Single Teaching Field

Freshman Year

1st Semester

Fall Semester		Hours
Courses		
Educ 100	Orientation to Education I	1
Psy 100	General Psychology	3
Th 121	Theatre Lab	2
CORE	[Eng 101 Comp I]	3
Psy 120	College Orientation	1
CORE	[Comm 100 Oral Comm]	3
CORE	[HPER 101 Physical Activity]	1
Th	Elective - Makeup	3
		17

2nd Semester

Th 142	Theatre Tech	3
CORE	[Area 2-A Elective]	3
CORE	[Hist 110 U.S. 1492-1877]	3
CORE	[Eng 102 Comp II]	3
CORE	[HPER 103 Lifetm Wellness]	2
CORE	[Math 110 or above]	3
		17

Sophomore Year

1st Semester

Take C-Base test.

Educ 200	Orientation to Education II	1
Comm 101	Intro to Human Comm	3
CORE	[Hist 120 U.S. 1877-Pres]	3
CORE	[Area 2-C Elective]	3
CORE	[Econ 180 Amer Econ Sys]	3
Th 212	Oral Interpretation	3
		16

2nd Semester

Apply for admission to teacher education.

Educ/Psy 302	The Exceptional Child	2
Educ 401	Computer Software	2
Comm 215	Interpersonal Comm	3
CORE	[PSc 120 Gov't: U.S./Sta/Loc]	3
Th	Elective*	3
Th 241	Acting I	3
Psy 301	Adolescent Psychology	3
		19

Junior Year

Pass media competencies.

1st Semester

Psy 310	Educational Psychology	2
Educ 329	Ped Theo, Meth & Prac	4
Educ 321	Microteaching	2
Educ 423	Classroom Management	2
Comm 304	Small Group Comm	3
CORE	[Area 5-A Elective]	3
		16

Note: See Educ 420 below**

2nd Semester

Educ 422	Tchnng Rdng in the Sec Sch	2
Th	Electives*	4
CORE	[Phys 100 Physical Science]	5
CORE	[Area 2-B Elective]	3
Electives		2
		16

Senior Year

1st Semester

Apply for student teaching. All course work must be completed except for Professional Semester courses.

Th 331	History of Theatre	3
Th 351	Directing I	3
Comm 315	Argumentation & Debate	3
CORE	[Bio 101 General Biology]	4
Th	Electives*	3
		16

2nd Semester

Educ 344	Tchnng Spe & Th in Sec Sch	2
Educ 402	Foundations in Educ	2
Educ 432	Critical Issues	2
Educ 412	Indiv Curr Development (2)	
OR		
Educ 420	Intro to Counseling** (3)	
OR		
Psy 412	Meas & Eval (2)	2-3
Educ 462	Stu Tchnng in Sec Sch	8
		16-17

[Department Recommendations]

*See prerequisites

**Offered at night only. Must be taken the semester prior to student teaching.

For additional information contact:

Dr. Jay E. Fields

Office: Taylor Performing Arts Center 243

Phone: 625-9393

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<p>Art 230 (F and/or S) 3 hrs. cr. Basic Form Studio exploration of the relationships of parts to form. Projects include two and three dimensional problems. Six studio hrs. per week. Lab fee required. Prerequisite: Art 101.</p>		<p>Art 310 (F or S) 3 hrs. cr. Transparent Watercolor Techniques and aesthetic processes of watercolor painting using landscape, figures and still lifes as subjects. Six studio hrs. per week. Lab fee required. May be repeated for a total of six credit hrs. Prerequisite: Art 130 or permission of instructor.</p>	<p>Art 407 (F and/or S) 3 hrs. cr. Advanced Ceramics Advanced methods, techniques and procedures of pottery making and design in clay. Six studio hrs. per week. Lab fee required. May be repeated for a total of 6 credit hrs. Prerequisite: Art 120 or approval of instructor.</p>
<p>Art 232 (F and/or S) 3 hrs. cr. Beginning Painting Procedures, techniques, historical processes and basic fundamentals of painting with oil. Six studio hrs. per week. Lab fee required. Prerequisite: Art 101 and Art 130.</p>		<p>Art 312 (F and/or S) 3 hrs. cr. Beginning Printmaking Procedures, techniques and fundamentals of the relief, intaglio process: etching, drypoint, aquatint, softground; collagraph printmaking and monotypes. Emphasis on drawing and design. Six studio hrs. per week. Lab fee required. Prerequisite: Art 130.</p>	<p>Art 420 (F and/or S) 3 hrs. cr. Special Projects in Art I Advanced studio survey selected by the student in a particular area of art. Students attend a regularly scheduled course of related content but complete an independent special project approved by the instructor. Requirements: (1) an exhibit of the special project two weeks before the end of the semester and (2) a formal paper documenting the special project(s). Prerequisite: Completion of 2 advanced courses in the same area of concentration and approval of instructor and department head. Lab fee may be required. May be repeated for a total of 6 credit hrs.</p>
<p>Art 240 3 hrs. cr. Typography and Lettering A studio course introducing the art of lettering/typography. Designed to develop the skills needed to competently use the tools, materials and methods employed by professionals in rendering layouts and comprehensives. All assignments use lettering or typography as the primary design element. Six studio hrs. per week. Lab fee required.</p>		<p>Art 321 (F and/or S) 3 hrs. cr. Advanced Sculpture Extension of Beginning Sculpture with introduction to the lost wax technique of casting bronze sculpture. Each student is permitted to cast one piece per semester. Six studio hrs. per week. Lab fee required. May be repeated for a total of 6 credit hrs. Prerequisite: Art 211.</p>	<p>Art 421 (F and/or S) 3 hrs. cr. Life Drawing Drawing and/or painting the human figure with emphasis on anatomy, structure and form. Six studio hrs. per week. Lab fee required. May be repeated for a total of 6 credit hrs. Prerequisites: Art 130 and Art 232.</p>
<p>Art 300 (F and/or S) 3 hrs. cr. Advanced Drawing Advanced investigation of various drawing elements including compositions, structure and aesthetics. Six studio hrs. per week. Lab fee required. May be repeated for a total of 6 credit hrs. Prerequisite: Art 101 and Art 130 or approval of instructor.</p>		<p>Art 322 (F and/or S) 3 hrs. cr. Advanced Sculpture Continuation of Art 321. Six studio hrs. per week. Lab fee required. May be repeated for a total of 6 credit hrs.</p>	
<p>Art 301 (F, Even) 3 hrs. cr. Art History, Prehistoric Through Gothic Historic survey of the visual arts from prehistoric through the Middle Ages. Primarily in the Near East, North Africa and Europe.</p>		<p>Art 325 (F) 3 hrs. cr. Graphic Communications I Introduction to commercial art with an emphasis on the recognition, duplication, function and aesthetic use of typography/pictorial images as a visual language. Includes lettering, layout and type/image relationships. Six studio hrs. per week. Lab fee required. Prerequisite: Art 101, Art 105 and Art 130.</p>	<p>Art 425 (F) 3 hrs. cr. Graphic Communications III Continued study of Graphic Communications II with an emphasis on the design and preparation of two and three-dimensional projects for printing and/or video reproduction. Includes an introduction to computer-aided graphic techniques and equipment. Six studio hrs. per week. Lab fee required. Prerequisite: Art 350.</p>
<p>Art 302 (S, Odd) 3 hrs. cr. Art History, Renaissance Through Baroque Historical survey of the visual arts of Europe from the Early Renaissance through the Baroque and Rococo. Comparative study of other cultures included.</p>		<p>Art 330 (F and/or S) 3 hrs. cr. Advanced Jewelry Design/Metalsmithing Exploration of advanced methods and techniques of complex forms for jewelry and metalsmithing design. Six studio hrs. per week. Lab fee required. May be repeated for a total of 6 credit hrs. Prerequisite: Art 205 or approval of instructor.</p>	<p>Art 430 (F and/or S) 3 hrs. cr. Advanced Printmaking Stencils (silkscreen), lithographic, advanced intaglio, relief and monoprint processes. Advanced studio methods for color registration and mixed media procedures. Emphasis on design, drawing concept, technical proficiency and presentation. Six studio hrs. per week. Lab fee required. May be repeated for a total of 6 credit hrs. Prerequisite: Art 312 or approval of instructor.</p>
<p>Art 303 (F, Odd) 3 hrs. cr. Art History, 19th Century Historic survey of the visual arts of Western Europe and the United States focusing primarily upon the styles of Neo-Classicism, Romanticism, Realism, Impressionism and Post-Impressionism.</p>		<p>Art 350 (S) 3 hrs. cr. Graphic Communications II Continued study of Graphic Communications I with an emphasis on the design and preparation of two-dimensional projects for printing and/or video reproduction. Includes an introduction to the development of an individual portfolio. Six studio hrs. per week. Lab fee required. Prerequisite: Art 325.</p>	<p>Art 440 (F and/or S) 3 hrs. cr. Special Projects in Art II Same as Art 420. May be repeated for a total of 6 credit hrs. Lab fee may be required.</p>
<p>Art 304 (S, Even) 3 hrs. cr. Art History, 20th Century Study of the mainstreams of Western Art in Europe and the United States, including its sources and influences. Emphasis placed on the succession of modernist art movements in France and Germany from 1900 to 1945 and in the United States from 1945 to present.</p>		<p>Art 401 (F and/or S) 3 hrs. cr. Advanced Painting Students select an individual problem for self-development using a variety of media. Six studio hrs. per week. Lab fee required. May be repeated for a total of 6 credit hrs. Prerequisite: Art 130 and Art 232.</p>	<p>Art 450 (S) 3 hrs. cr. Graphic Communications IV Advance study of graphic design layout, production and/or video reproduction. Includes advanced projects with computer-aided graphic techniques and equipment. Completion of an individual portfolio is required. Six studio hrs. per week. Lab fee required. May be repeated for a total of 6 credit hrs. Prerequisite: Art 425.</p>
<p>Art 305 (Demand) 3 hrs. cr. Seminar Student art problems investigated with group participation. Requirements: research papers and oral presentations of investigated problems. Prerequisite: 21 credit hrs. in art. Strongly recommended by the art faculty.</p>			

Art 475 (Demand) 1-8 hrs. cr.
Graphic Communications Internship

An off-campus work experience in a professional setting for advanced art majors with a graphic communications emphasis. All internships must conform with institutional policy regarding the number of hrs. per credit and with contractual agreements involving the cooperating organization. Prerequisite: 6 hrs. of graphic communications, junior standing or above and approval of departmental committee.

Art 490 (F) 2 hrs. cr.
Senior Exhibit

Prepares senior art majors for their exhibit which is normally scheduled during May in the Spiva Art Center. One hr. lecture, 2 hrs. of studio per week. Prerequisite: Senior standing and permission of the Junior Review Committee.

Biology (Bio)

Bio 101 (F, S) 4 hrs. cr.
General Biology

General treatment of unifying principles of living organisms including cell structure and function, metabolism, genetics, evolution and ecology. Emphasis on these biological principles as they relate to humans. Three lectures, one 2-hr. lab per week. Fulfills Core Curriculum requirement in Area 3, section A for most majors.

Bio 112 (F, S) 3 hrs. cr.
Botanical Survey

Morphology, physiology and classification of plants are studied with emphasis on diversity of plants. Two lectures, one 2-hr. lab per week. Prerequisite: Bio 101.

Bio 121 (F, S) 4 hrs. cr.
General Zoology

Introduction to the basic principles of human cytology, histology, metabolism and genetics. Emphasis on anatomy and physiology of humans in preparation for Bio 306. Three lectures, one 2-hr. lab per week. Fulfills Core Curriculum requirement for physical education and certain health related technology majors.

Bio 122 (F, S) 3 hrs. cr.
Zoological Survey

Morphology, physiology and classification of animals with emphasis on the diversity of animals. Two lectures, one 2-hr. lab per week. Prerequisite: Bio 101 or 121.

Bio 210 (F, S) 3 hrs. cr.
Molecular and Cellular Biology
 (Writing Intensive)

Physiological characteristics and function at the cellular and molecular levels of both plant and animal cells. Three lectures, one 2-hr. lab per week. Prerequisites: Bio 112, 122, Chem 102.

Bio 231 (F, S) 5 hrs. cr.
General and Medical Microbiology

For students interested in medical professions. Topics include general principles of microbiology, immunology and identification of microorganisms. Three lectures, two 2-hr. labs per week. Prerequisite: Bio 101 or 121.

Bio 240 (S) 3 hrs. cr.
Radiation Biology

Survey of various types of radiation affecting humans, the uses of radiation and methods for monitoring radiation levels. Emphasis on the physiological damage that occurs to tissues following ionizing radiation. Three lectures per week. Prerequisites: Five hrs. of chemistry or acceptance into the School of Radiologic Technology.

Bio 261 (Demand) 3 hrs. cr.
Animal Nutrition

Biochemistry and fundamental principles of animal nutrition with special emphasis given to livestock feeding and production. Three lectures per week. Prerequisite: Chem 300 or 301 or permission. (Does not count toward any biology major.)

Bio 271 (Demand) 3 hrs. cr.
Principles of Plant Propagation

Principles of plant propagation, emphasizing three specific areas: the physiology of plant growth and the anatomy of plants as topics related to propagation; propagation methods; and technical skills such as budding, grafting and making cuttings. Two lectures, one 2-hr. lab per week. (Does not count toward a biology major.)

Bio 290 (Demand) 2 hrs. cr.
Research Methods in Biology

Development of investigational and technical skills required in biology and related fields. Students learn to use the library and to prepare proposals and reports. Familiarizes students with field and laboratory techniques, research design and statistical analysis. Lecture and lab equivalent to 2 hrs. of lecture per week. Recommended for students who wish to enroll in Bio 499 Problems in Biology. Prerequisite: Bio 112 or 122.

Bio 298 (Demand) 1-8 hrs. cr.
Selected Topics in Biology

Specific topic or topics not normally included in another course. Prerequisites: Bio 112 and 122 or permission.

Bio 303 (Demand) 2 hrs. cr.
Computer Applications in Biology

Explores ways in which microcomputers are used to better understand and study biological phenomena. Develops computer literacy and technical expertise required in research, graduate school, teaching and in many other occupations. One lecture, 3-hrs. of lab per week. Prerequisites: Bio 101 and an introductory course in computing or permission.

Bio 305 (F, S) 4 hrs. Cr.
Genetics
 (Writing Intensive)

Introduction to principles of heredity, gene structure, expression and regulation. Emphasis on cytological and molecular approaches to nucleic acid replication, transcription, translation and other genetic mechanisms. Lab exercises illustrate genetic principles and techniques used in modern genetic research. Three lectures, one 2-hr. lab per week. Prerequisite: Bio 101.

Bio 306 (F, S) 5 hrs. cr.
Human Physiology and Anatomy

Structure and function of the human body with emphasis on physiological processes and their anatomical basis. Three lectures, two 2-hr. labs per week. Credit toward the biology major may include Bio 306 or 431, but not both. Prerequisite: Bio. 121 or permission.

Bio 308 (Demand) 4 hrs. cr.
Pathophysiology

Altered physiological states, the cellular manifestations and causes of disease and adaptation to the alterations. Three lectures, one 3-hr. lab per week. Prerequisites: Bio 306 and 211 or 231.

Bio 312 (F) 4 hrs. cr.
Environmental Biology
 (Writing Intensive)

Environmental factors and their interactions with living organisms. Emphasis on human ecology and wise natural resource utilization. Three lectures, one 2-hr. lab per week. Prerequisite: Bio 112 and 122 or permission. (Double listed in Environmental Health Technology.)

Bio 316 (F) 3 hrs. cr.
Economic Botany

Economic uses of plants and present and possible future value of lower plants. Emphasis on economic aspects of higher plants from an agricultural, horticultural and crop selection viewpoint as well as from a view of pharmacological usage, etc. Three lectures a week. Prerequisite: Bio 101.

Bio 322 (S) 4 hrs. cr.
Taxonomy of Flowering Plants

Relationships among selected plant groups with emphasis on classification and descriptions of taxa, nomenclature and concepts concerning the evolutionary sequence of various plant characters. Southwestern Missouri flora emphasized. Two lectures, two 2-hr. labs per week. Prerequisite: Bio 112.

Bio 331 (F) 5 hrs. cr.
Comparative Vertebrate Anatomy

Fundamental course designed to enhance understanding and appreciation of the structure and adaptations of vertebrates. Emphasis on evolution and the relationship between structure and function. Two lectures, two 3-hr. labs per week. Prerequisite: Bio 122.

Bio 332 (F, Even) 3 hrs. cr.
Introduction to Entomology

Collecting methods, taxonomy, life history, morphology and evolution of insects. Two lectures, one 3-hr. lab per week. Prerequisite: Bio 122.

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Bio 342 (Demand) 2 hrs. cr.
Microtechnique
 Principles of preserving, fixing, staining and mounting biological materials. Two 2-hr. labs per week. Prerequisites: Bio 112 and 122.

Bio 352 (Demand) 2 hrs. cr.
Biomes
 In-depth study of a selected ecosystem. The interactions between plants and animals with their abiotic environment is studied in the classroom and during an extended field trip usually lasting one week or more. The habitat chosen for study varies from year to year and some trips require physical conditioning or specialized training. Living conditions range from primitive to reasonably comfortable dormitories. Students are required to bear the cost of the trip. Prerequisites: Bio 112, 122 and permission.

Bio 361 (F, Even) 4 hrs. cr.
Parasitology
 Systematic investigation of the numerous parasites found in vertebrates. Emphasis on life cycles of parasites which infect humans and domestic animals. Three lectures, one 3-hr. lab per week. Prerequisite: Bio 122.

Bio 362 (F, Odd) 4 hrs. cr.
Virology
 Structure, classification and life cycles of bacterial, animal and plant viruses, their significance in disease (including cancer) and the use of viruses in modern biological research. The laboratory will stress the cultivation of viruses in bacterial and other cells. Three lectures, one 3-hr. lab per week. Prerequisites: Bio 231 and 305.

Bio 370 (Demand) 4 hrs. cr.
Environmental Health
 Contemporary environmental health problems and public protection measures including public disease prevention, vector control, etc. Three lectures, one 2-hr. lab per week. Prerequisites: Bio 231 or permission. (Double listed in Environmental Health Technology.)

Bio 371 (Demand) 4 hrs. cr.
Plant Physiology
 Introduction to plant physiology emphasizing a review of the cell, plant biochemistry, regulation of plant development and factors producing physiological stress in plants. Three lectures, one 2-hr. lab per week. Prerequisites: Bio 112 and 210.

Bio 380 (S, Odd) 2 hrs. cr.
Epidemiology
 Introduction to the concepts, principles and methods generally useful in the surveillance and investigation of communicable disease. Prerequisites: Bio 290, EHT 312, (Bio 312) and EHT 370, (Bio 370) or permission. (Double listed in Environmental Health Technology.)

Bio 402 (S) 4 hrs. cr.
General Ecology (Writing Intensive)
 Study of plant and animal communities and their interaction within the environment. Emphasis on flora and fauna of Southwest Missouri and soils, climate and other major environmental factors responsible for the distribution and association of plants and animals. Three lectures, one 3-hr. lab per week. Prerequisites: Bio 112 and 122 or permission.

Bio 422 (Demand) 5 hrs. cr.
Invertebrate Zoology
 Classification, morphology, physiology, development and evolution of invertebrate animals. Three lectures, two 2-hr. labs per week. Prerequisite: Bio 122.

Bio 431 (Demand) 5 hrs. cr.
Animal Physiology
 Comparative approach to the physiology of animals with emphasis on laboratory studies using local species. Three lectures, two 2-hr. labs per week. Credit toward the biology major may include Bio 306 or 431, but not both. Prerequisite: Bio 331.

Bio 433 (S, Even) 4 hrs. cr.
Histology
 Detailed study of microscopic structure of animal tissues and organs with special emphasis on mammalian tissue. Three lectures, one 3-hr. lab per week. Prerequisite: Bio 122.

Bio 440 (Demand) 4 hrs. cr.
Plant Pathology
 Historical significance of plant pathology, the physiological response of plants to abiotic factors, the anatomical and physiological aspects of plant susceptibility to disease and examples of management systems. Includes major diseases caused by bacteria, fungi and viruses. Three lectures, one 2-hr. lab per week. Prerequisite: Bio 112.

Bio 442 (S, Even) 5 hrs. cr.
Pathogenic Bacteriology
 A basic study of the structure, identification and pathology of the infectious bacteria. Three hours of lecture and two 2-hr. labs per week. Prerequisite: Bio 231.

Bio 450 (F, S) 1-8 hrs. cr.
Internship in Biology
 In conference with a departmental board a half semester in advance, the student shall elect to work and observe in any area of applied biology in which on-the-job experience would be beneficial to the student's training. Prerequisites: At least a second semester junior standing in biology with a minimum of 20 biology hrs. and 20 senior hrs. or permission.

Bio 456 (S, Even) 4 hrs. cr.
Immunology
 Cellular and molecular basis of the immune response in vertebrates including structure, induction and regulation of the immune response. Autoimmune disorders, vaccines, transplantation and diagnostic immunology will also be presented. The laboratory will stress the induction and manipulation of the immune response. Three lectures and one 3-hr. lab per week. Prerequisites: 231 and 305.

Bio 462 (S, Odd) 5 hrs. cr.
Embryology
 Detailed comparisons of developmental process of members of the classes of vertebrates. Three lectures, two 2-hr. labs per week. Prerequisite: Bio 331.

Bio 481 (S, Odd) 4 hrs. cr.
Aquatic Ecology
 Analysis of components of freshwater systems, both impoundment and stream environments. Three hrs. lecture, one 2-hr. lab per week. Prerequisite: Bio 122.

Bio 490 (F, S) 1 hr. cr.
Seminar
 Faculty supervised discussion group concerned with reviews and presentation of reports covering current topics in biology. Students will present reviews in their various areas of interest. One meeting per week. Prerequisites: Primarily for biology majors of junior standing or interested students with at least 15 hrs. of biological science. Bio 490 may be repeated for additional credit.

Bio 498 (F, S) 1-5 hrs. cr.
Seminar in Biology
 For upper division majors only. Meets regularly a minimum number of hrs. Designed to give specialized instruction in some discipline of biology not covered in other courses. Prerequisites: Junior standing, 20 hrs. in biology and a minimum GPA of 2.5 in biology or permission.

Bio 499 (F, S) 1-3 hrs. cr.
Problems in Biology
 Individual work under the supervision of a staff member, with the credit and hrs. to be arranged. Problems may be undertaken in any field of biology, with adequate preparation and the consent of the supervising instructor, department head and school dean. Prerequisite: Minimum GPA of 3.0 in 20 hrs. of biology.

Chemistry (Chem)

Chem 100 (F, S) 5 hrs. cr.
Introductory Chemistry
 Basic principles and practical applications of inorganic, organic and biochemistry which satisfies the needs of students in certain health-related programs. Four lectures, one 3-hr. lab per week. Prerequisite: Math 30 or satisfactory score on the Mathematics Placement Test.

Chem 101 (F, S, SS) 5 hrs. cr.
General Chemistry I
 Introduction to theories of chemistry with emphasis on the relationship of structure to properties of matter and the quantitative aspect of these changes. Four lectures, one 3-hr. lab per week. Prerequisite or corequisite: Math 140 or higher level math course.

Chem 102 (F, S, SS) 5 hrs. cr.
General Chemistry II
 Continuation of Chem 101. Emphasis on the dynamics and thermodynamics of chemical processes and on the properties and reactions of analogous groups of cations and anions. Four lectures, one lab per week. Prerequisites: Chem 101 with a minimum grade of "C" or permission of instructor and Math 140 or higher level math course.

Chem 190 (Demand) 1-2 hrs. cr.
Laboratory in Chemistry

A lower division laboratory course to be used by students who are transferring chemistry courses without a laboratory to MSSC. This will make the transferred course equivalent to the MSSC course. Class may be repeated for credit as needed.

Chem 201 (F) 5 hrs. cr.
Analytical Chemistry I

Standard first course in quantitative chemical analysis. The lecture and lab include the theory and practice of methods of analysis. While the primary emphasis is in the first semester is on the interpretation of the experimental results, other aspects of the analytical process are introduced. Three lectures, two 3-hr. labs per week. Prerequisite: Chem 102.

Chem 297 (F, S) 1-3 hrs. cr.
Introduction to Research in Chemistry
 (Writing Intensive)

Introduction to research techniques; laboratory work and literature search under the supervision of an instructor on a chemical research project. Involves laboratory experimentation as well as a written report on a project from any area of chemistry. Open to students having 1) a minimum of 15 hours of chemistry, 2) freshman or sophomore standing, 3) the ability to undertake independent work and 4) permission of the instructor. Enrollment must be approved by the adviser and the department head.

Chem 298 (F, S) 1-3 hrs. cr.
Selected Topics in Chemistry
 Special topics in chemistry not normally included in other courses. Prerequisite: Chem 201 or permission of instructor.

Chem 300 (S) 5 hrs. cr.
Introduction to Modern Organic Chemistry
 (Writing Intensive)

Principles of organic chemistry—nomenclature, structure, properties, stereochemistry, reactions—will be studied by the functional group approach. Designed for students who require a general knowledge of organic chemistry in their chosen career or as background for other courses in technical or professional training programs. Four lectures, one 3-hr. lab per week. Prerequisite: Chem 102.

Chem 301 (F) 5 hrs. cr.
Organic Chemistry I

Deals with both Aliphatic and aromatic compounds, their nomenclature, properties, reactions, stereochemistry. The functional group approach is used: hydrocarbons (saturated, unsaturated, aromatic) and their derivatives are studied. Brief introduction to organic spectroscopy included. Four lectures, one 3-hr. lab per week. Prerequisite: Chem 102.

Chem 302 (S) 5 hrs. cr.
Organic Chemistry II
 (Writing Intensive)

Continuation of Chem 301. Organic spectroscopy discussed in detail. The functional group approach is continued: Aryl halides, phenyls, aldehydes and ketones, carboxylic acids, amines and polyfunctional compounds are covered. A mechanistic treatment of substitution, elimination, addition and free radical reactions is employed. Organic spectroscopy emphasized in both lecture and lab. Four lectures, one 3-hr. lab per week. Prerequisite: Chem 301.

Chem 320 (S) 2 hrs. cr.
Applications of Computers in Chemistry

Applications of microprocessors and modern microcomputers in chemistry: management of chemical information; chemical data collection, reduction and quantitation; use of remote information systems (via modem); analytical instrument interfacing; publication. Prerequisite: Chem 301 and Comp 110 or higher level computer science course.

Chem 351 (F) 4 hrs. cr.
Biochemistry
 (Writing Intensive)

Fundamental concepts of the chemistry of lipids, carbohydrates and proteins with emphasis on the physiological aspects of these compounds. The interrelationship of these compounds in living systems will be presented through bioenergetics and reaction pathways. Three lectures, one 3-hr. lab per week. Prerequisite: Chem 300 or 302.

Chem 390 (Demand) 1-2 hrs. cr.
Laboratory in Chemistry

A upper division laboratory course to be used by students who are transferring chemistry courses without a laboratory to MSSC. This will make the transferred course equivalent to the MSSC course. Class may be repeated for credit as needed.

Chem 401 (F, Odd) 4 hrs. cr.
Physical Chemistry I

Development of laws of thermodynamics to explain the relationships between properties of systems at equilibrium. Ideas of thermodynamics are first applied to equilibria between different phases and then to chemical reactions. Three lectures, one 3-hr. lab per week. Prerequisites: Math 250 and Phys 260.

Chem 402 (S, Even) 4 hrs. cr.
Physical Chemistry II

Continuation of Chem 401. A microscopic approach to the understanding of chemical and physical properties of chemical systems and a study of the rates at which chemical and physical processes occur. Studies of: quantum theory, molecular electronic structure, molecular spectroscopy, statistical mechanics, kinetic theory of gases and chemical kinetics. Three lectures, one 3-hr. lab per week. Prerequisite: Chem 401.

Chem 421 (S) 5 hrs. cr.
Analytical Chemistry II

Continuation of Chemistry 201. A study of the overall analytical process. Lecture and lab deal mainly with electrochemical and spectrophotometric methods of analysis and their application in chemical analysis, but also include other physiochemical and separatory techniques used in modern analytical processes. Three lectures, two 3-hr. labs per week. Prerequisite: Chem 201.

Chem 422 (S, Even) 4 hrs. cr.
Advanced Inorganic Chemistry

Contemporary state of the several bond models in chemistry, a review of the energetics of reactions and coordination theory, followed by the chemistry of the families of the elements in the periodic table. Three lectures, one 3-hr. lab per week. Prerequisites: Chem 102 and Math 250.

Chem 472 (S, Odd) 4 hrs. cr.
Organic Qualitative Analysis

Systematic identification of organic compounds and mixtures; organic spectroscopy is emphasized. Two lectures, two 3-hr. labs per week. Prerequisite: Chem 302.

Chem 496 (F, S) 2 hrs. cr.
Problems in Chemistry
 (Writing Intensive)

A practical research class especially designed for student seeking a bachelor of science in education with a major in chemistry. The class involves laboratory work and a literature search under the supervision of an instructor on a chemical research project. Involves lab experimentation as well as written report on a project from any area of chemistry. Open to students needing a problems course in chemistry to satisfy Missouri Certification Standards for Secondary Teachers in Chemistry. Students must have a minimum of 20 hours of chemistry and permission of the instructor. Enrollment must be approved by the adviser and the department head.

Chem 497 (F, S) 1-3 hrs. cr.
Research in Chemistry
 (Writing Intensive)

Independent research techniques; lab work and literature search under the supervision of an instructor on a chemical research project. Involves lab experimentation as well as a written report on a project from any area of chemistry. Open to students having 1) a minimum of 20 hours of chemistry, 2) junior or senior standing, 3) the ability to undertake independent work and 4) permission of the instructor. Enrollment must be approved by the adviser and the department head.

Chem 498 (F, S) 1-3 hrs. cr.
Seminar

For upper division chemistry majors. Content varies, depending on the student's needs, from library research to special topics in chemistry. Prerequisite: Senior standing or permission of department head.

Chem 499 (F, S) 1-3 hrs. cr.
Independent Study

Independent investigation techniques; includes a paper on a selected topic with both a critical survey of the chemical literature and results from advanced lab experimentation. Open to students having (1) minimum of 25 hrs. of chemistry, (2) ability to undertake independent work and (3) permission of instructor. Enrollment must be approved by adviser, department head and school dean.

Communications (Comm)

Comm 100 (F, S) 3 hrs. cr.

Oral Communication

Principles of oral communication, including speaking and listening competencies and skills. Primary emphasis is on presenting various types of speeches and improving listening ability. Research, organization, reasoning, language and evaluation skill development are included. Three contact hrs. per week. (Required of all degree candidates.)

Comm 101 (F, S) 3 hrs. cr.

Introduction to Human Communication

An introductory survey of the field of communication, exploring theoretical and research foundations. Included are discussions of language and verbal interaction and nonverbal communication. Contexts of communication are covered: interpersonal, group and organizational, public, intercultural and mass. Also covered will be career opportunities for the student who chooses a major or minor in communication.

Comm 111 (F, S) 3 hrs. cr.

Newsriting

Development of techniques in reporting and writing for a newspaper. Work on the College newspaper, *The Chart*, is required.

Comm 121 (F, S) (Per Sem.) 1 hr. cr.

Forensics Workshop

A practicum in forensics, including research, organization and presentation of the current debate proposition along with development and presentation of individual events. May be repeated for a maximum of 4 hrs. of credit.

Comm 130 (S) 3 hrs. cr.

Introduction to Broadcasting

The role of the electronic media in our society and an introduction to the varied aspects and functions of the broadcasting professions. Laboratory experience in radio and television.

Comm 131 (F, S) 3 hrs. cr.

Voice and Diction

Techniques for improving the speaking voice. Attention to voice production, phonetics, pronunciation and vocal expressiveness.

Comm 150 (F, S) 3 hrs. cr.

Introduction to Desktop Publishing

Desktop publishing is a significant technology in the working environment for the journalist or public relations practitioner. Designed for the student with little or no familiarity with computers. A lecture/hands-on laboratory course intended to equip the student with basic skills in desktop publishing. Enrollment is limited to communications majors. Does not meet computer literacy requirements.

Comm 200 (F, S) 3 hrs. cr.

Radio Production

Development of announcing skills. Exercises in microphone techniques, introduction to control board, basic production techniques and combo operation of radio station, introduction to programming and formats. Work on air at KXMS. Projects are taped for analysis and critique. Two hrs. lecture, 2 hrs. lab per week.

Comm 201 (F, S) 3 hrs. cr.

Television Production

Intensive practice in preparation and production of television programs. Camera techniques, floor setups and direction of crews and talent. Interviewing techniques. Development of varied on-the-air skills. Two hrs. lectures, 2 hrs. lab per week.

Comm 203 (S) 3 hrs. cr.

Business and Professional Speech

A performance-oriented course designed to foster ability in and understanding of the role of speech communication in the context of business organizations and the professions. Interviewing, group discussion and individual speaking formats are included.

Comm 205 (S, Even) 3 hrs. cr.

Listening

A study of the role listening plays in our daily lives. Emphasis on the listening process, types of listening skills, response strategies and what our listening behaviors communicate to others. Intensive practice for those who recognize the importance of genuine listening and wish to acquire proficient listening abilities.

Comm 215 (F, S) 3 hrs. cr.

Interpersonal Communication

(Writing Intensive)

Person-to-person communication with emphasis on dyadic and group communication. Lecture, reading and discussion with class experiments designed to illustrate interpersonal communication problems. Prerequisite: Comm 100.

Comm 220 (F, S) (Per Sem.) 1 hr. cr.

Practicum in Communications

Laboratory experience on the staff of the College newspaper, yearbook, or broadcast media. Students will participate fully in the work of the media, working under the supervision of faculty members. A minimum of 5 hrs. per week is required. One hr. of credit each term for a maximum of three terms. Prerequisite: for *The Chart* or *Crossroads*, Comm 111; for KXMS, Comm 200; for TV, Comm 201.

Comm 231 (F) 3 hrs. cr.

Feature Writing

Investigative reports and special articles for newspapers and magazines. Work on the College newspaper is required. Prerequisite: Comm 111 or consent of instructor.

Comm 233 (S) 3 hrs. cr.

Copyediting

Principles of copy reading and editing, design of newspaper. Use of desktop publishing skills. Students work in positions of major responsibilities on the College newspaper, *The Chart*. Prerequisite: Comm 111 and Comm 150 or equivalent experience.

Comm 298 (Demand) 1-8 hrs. cr.

Selected Topics in Communications

Topics not normally included in another course. Prerequisites are determined by the department and stipulated in syllabus.

Comm 300 (F) 3 hrs. cr.

Organizational Communication

The interface between communication theory and organizational structure. Emphasis upon communication problems in organizations, strategies for overcoming such problems and the design of effective communication systems in organizational settings. Prerequisites: Comm 101 and 215.

Comm 301 (S, Even) 3 hrs. cr.

Broadcast and Cable Management

Broadcast station administration, market analysis, policy determination, station organization, sales, programming, network relationships, community involvement and FCC responsibilities. Prerequisite: Comm 200 and 201 or consent of instructor.

Comm 302 (Demand) 3 hrs. cr.

Photocommunications

Theory and practice of communication through the medium of photography. Students work on the photography staffs of college publications and deal with the application of photography to the mass media. Prerequisite: Comm 111 and a knowledge of photographic techniques, including developing and printing.

Comm 304 (F) 3 hrs. cr.

Small Group Communication

(Writing Intensive)

Small group context of interpersonal communication emphasizing group behavior and human relations. Specific units include group problem solving, decision making and leadership style. Prerequisite: Comm 100.

Comm 305 (F, S) 3 hrs. cr.

Intercultural Communication

(Writing Intensive)

Analysis of variables influencing communication among peoples from different cultures. Emphasis on developing interpersonal skills needed in multicultural encounters. Prerequisite: Comm 100. (Meets Core Curriculum requirements in Area 5, International Cultural Studies.)

Comm 306 (S) 3 hrs. cr.

Persuasion

A theoretical examination of the principles of influencing individuals and groups, a history of rhetoric and modern application of these principles to various areas of social interaction. Prerequisite: Comm 100.

Comm 307 (F) 3 hrs. cr.

Professional Interviewing

Designed to prepare students for professional fields which require information-seeking and -gathering, decision-making, interaction skills and self-expression. The student will participate in a variety of simulated and actual interviewing situations as both an interviewer and interviewed. Prerequisite: Comm 100.

- Comm 308 (S, Odd) 3 hrs. cr.
Gender Communication
 The pragmatics of gender-related communication refers to the study of the embedded contexts of male-female symbolic interaction. This introduction to the field of gender communication will look at interpersonal, organizational and cultural contexts. Prerequisite: Comm 100.
- Comm 310 (S) 3 hrs. cr.
Communication Law
 Statutes, administrative regulations and court decisions affecting freedom of information, censorship, libel, privacy, contempt of court, obscenity, legal access, copyright, advertising and broadcasting. Rights, privileges and obligations of the press.
- Comm 311 (S) 3 hrs. cr.
Introduction to Public Relations
 Nature and scope of public relations and its relationship to interpersonal and interdisciplinary conduct. Basic elements of public relations including planning, special events, speeches, news releases, annual reports, financial reporting, visual and electronic media techniques.
- Comm 312 (Demand) 3 hrs. cr.
Scholastic Publications
 Editorial and production practices of school newspapers and yearbooks. The role of the publications adviser; advanced publication work on the College newspaper or yearbook. Prerequisite: 12 hrs. in media courses.
- Comm 315 (F, Even) 3 hrs. cr.
Argumentation and Debate
 The theory of the modern forms of evidence, evaluations, arguments, methods of refutation and ethical relationships of these methods in a free society. (Meets certification requirements for secondary education.) Prerequisite: Comm 100.
- Comm 320 (S) 3 hrs. cr.
Advanced Television Production
 Focuses on the elements of producing and directing television programs. Students spend most of the laboratory time actually producing programs for telecasting on cable, public television, or the College's own television station. One hr. lecture, 4 hrs. lab each week. Prerequisite: Comm 201.
- Comm 321 (F, S) (Per Sem.) 1 hr. cr.
Forensics Workshop
 Advanced practicum in the area of forensics, including research, organization and presentation of the current debate proposition along with development and presentation of individual events. May be repeated for a maximum of 4 hrs. of credit. Prerequisite: Junior or senior standing and Comm 121.
- Comm 325 (F) 3 hrs. cr.
Broadcast News Reporting
 (Writing Intensive)
 Experience in writing and reporting news for broadcast. Interview assignments, wire rewriting, actualities/voice production and newstape editing. Laboratory experience with campus broadcast media. Prerequisite: Comm 111.
- Comm 330 (F, S) 1 hr. cr.
Advanced Communications Practicum
 Intensive laboratory experience on the staff of the College newspaper, yearbook, broadcast media or in the Communications Resource Center. Students will work for a minimum of 5 hrs. per week in positions of major responsibilities. May be repeated for a maximum of 6 hrs. of credit. Prerequisites: Junior or senior standing; media courses to prepare student adequately for work expected; Comm 220 or permission.
- Comm 340 (S, Odd) 3 hrs. cr.
Research in Communications
 An introduction to research methods in communications. Discussion of these methods as they apply to various communication contexts. This course offers an exploration of the nature of research, types of research methodologies and evaluation of research. Prerequisites: Junior or senior standing and Comm 101.
- Comm 345 (F, S, Summer) 1-8 hrs. cr.
Internship in Communications
 Off-campus work experience in areas related to professional goals of students. For advanced majors in communications. Students must be approved for the program prior to enrolling. For some specific internships available, application must be made during the first half of one semester for the following semester. These internships are highly competitive and are awarded only to exceptional students. In all internships students work under joint supervision of a faculty member and a representative of the organization providing the intern experience. A student may repeat the course to a maximum of 8 hrs. of credit. Prerequisites: Communications major with a minimum of 85 semester hrs.; approval of department head prior to enrolling. Some internships may have other specific prerequisites.
- Comm 350 (Demand) 3 hrs. cr.
Sports Writing
 The fundamental principles of reporting and interpreting sports, improving writing and editing skills for game coverage and feature stories and further developing and refining those skills necessary for success in the field. Prerequisite: Comm 111.
- Comm 400 (S, Even) 3 hrs. cr.
Advanced Organizational Communication
 The application of communication theory within the organizational structure is the thrust of the course. Particular attention is focused on analysis and diagnostic capabilities. Communication training and development within an organizational setting is emphasized. Prerequisite: Comm 300.
- Comm 401 (S) 3 hrs. cr.
Nonverbal Communication
 The thrust of the course will be to study types and effects of various nonverbal communication behaviors and to develop competencies and skills in applying the study to selected perspectives. Original research as well as published research will be emphasized. Prerequisite: Comm 100.
- Comm 402 (S, Odd) 3 hrs. cr.
Broadcast Programming
 An analysis of the programming principles and techniques used within the broadcast and cable professions. Practices of networks, affiliated stations, independent stations and superstations are compared and contrasted. Prerequisite: Comm 130.
- Comm 411 (S, Odd) 3 hrs. cr.
Political and Social Communication
 Critical analysis of speakers and speeches selected to present the characteristic ideas of leading social and political developments in national and international affairs; includes lecture, reading and discussion. Prerequisite: Comm 100 and junior or senior standing.
- Comm 420 (F) 3 hrs. cr.
Mass Communications Theory
 Explores the various theories which have been applied to understanding the effects of the mass media. Students will learn the various paradigms which have been applied in attempting to predict media performance, reliability and impact. Prerequisite: Comm 100 plus 3 hrs. of communication courses.
- Comm 450 (S, Even) 3 hrs. cr.
Community Journalism
 Examining the nature and role of community journalism in an urbanized society is the thrust of the study. It relies heavily on the expertise of community journalism practitioners as resources of information and research. Experience with small daily and weekly newspapers will be the foundation for developing skills in community journalism. Prerequisite: Comm 111.
- Comm 490 (S) 3 hrs. cr.
Professional Communication Skills
 (Writing Intensive)
 Writing, speech preparation and the public presentation of ideas. Both written and oral presentations are required and considerable emphasis will be placed on the effective use of language. Prerequisites: Comm 100 and Eng 102.
- Comm 492 (S) 3 hrs. cr.
Communication Issues
 Required of all communications majors. Synthesizes information obtained from previous coursework. Students are presented with current issues of concern from communications fields and are asked to present possible scenarios for their resolution. Prerequisite: Senior standing, plus 15 hrs. in communications.
- Comm 493 (S, Even) 3 hrs. cr.
International Communication
 Comparative analysis of media systems throughout the world, international broadcasting, freedom of the press, media imperialism and the New World Information Order.
- Comm 498 (Demand) 3 hrs. cr.
Seminar in Speech Communication
 For upper-division students. Topics to be announced each time the course is offered.

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- Comm 498 (Demand) 1-3 hrs. cr.
Seminar in Mass Communications
 For upper-division students. Topics to be announced each time the course is offered.
- Comm 499 1-3 hrs. cr.
Independent Study in Speech Communication
 An independent course structured by the adviser with approval of the department head and school dean. Prerequisite: Must have completed 90 hrs. with a cumulative GPA of 3.0 and have completed 15 hrs. of communications. Projects must be approved by adviser, department head and school dean prior to enrollment.
- Comm 499 1-3 hrs. cr.
Independent Study in Mass Communications
 Individually directed study in selected areas for advanced majors in mass communications. Prerequisite: Must have completed 90 hrs. with a cumulative GPA of 3.0 and have completed 15 hrs. of communications. Projects must be approved by the adviser, department head and school dean prior to enrollment.
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- ### English (Eng)
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- Eng 080 3 hrs. cr.
Basic Composition
 Offered through the Learning Center, for students whose placement scores indicate they are not prepared to enter English 101. Students will write at least six major papers with special attention given to mechanics, grammar, syntax, paragraphing and organization. Students must pass English 80 before registering for English 101.
- Eng 101 3 hrs. cr.
Freshman Composition I (Writing Intensive)
 Principles of effective writing based upon expository models. Successful completion of the course permits the student to enroll in English 102. Students demonstrating exceptional ability as indicated by placement scores may be permitted to substitute English 111. (Meets Core Curriculum requirements.)
- Eng 102 3 hrs. cr.
Freshman Composition II (Writing Intensive)
 Continued development of writing skills. Initiation, development and completion of a research paper. Prerequisite: English 101. (Meets Core Curriculum requirements.)
- Eng 111 3 hrs. cr.
Advanced Freshman Composition (Writing Intensive)
 For freshmen demonstrating exceptional proficiency on placement tests. With a grade of "C" or better in English 111, a student also automatically receives three hrs. credit for English 101, thereby satisfying the six hour composition requirement. However, students receiving a D in English 111 must take English 102.
- Eng 150 3 hrs. cr.
Introduction to Literature
 An examination of literary themes, techniques, and approaches reflected in the genres of fiction, poetry, and drama. (Meets Core Curriculum requirements.)
- Eng 160 3 hrs. cr.
Introduction to Film Studies
 An introduction to the study of film as a literary genre and art form. Two hrs. lecture, 2 hrs. lab.
- Eng 216 (S) 3 hrs. cr.
Creative Writing (Writing Intensive)
 Writing of prose, poetry and drama. A study of the writer's roles and technical approaches to literature in order to develop creative writing skills. Prerequisite: English 101.
- Eng 261 3 hrs. cr.
Masterpieces of World Literature
 Selected literature through the Renaissance, excluding British and American literature. (Meets Core Curriculum requirements.)
- Eng 262 3 hrs. cr.
Masterpieces of World Literature
 Selected literature from the Renaissance to the present, excluding British and American literature. (Meets Core Curriculum requirements.)
- Eng 271 3 hrs. cr.
English Literature
 Survey of English literature from its beginnings through the eighteenth century. (Meets Core Curriculum requirements.)
- Eng 272 3 hrs. cr.
English Literature
 Survey of English literature from the Romantic Movement to the present. (Meets Core Curriculum requirements.)
- Eng 281 3 hrs. cr.
American Literature
 A survey of American literature from its beginning to the Civil War. (Meets Core Curriculum requirements.)
- Eng 282 3 hrs. cr.
American Literature
 A survey of American literature from the Civil War to the present. (Meets Core Curriculum requirements.)
- Eng 298 (Demand) 3 hrs. cr.
Explorations in Literature
 Studies in a variety of literary subjects. Topic open.
- Eng 301 (F) 3 hrs. cr.
Modern Grammar
 Survey of the major descriptive approaches to English grammar, emphasizing generative transformational syntax. Also focuses on dialect, usage, and practical classroom applications.
- Eng 305 3 hrs. cr.
The Short Story
 An indepth study of the short story with representative writers from throughout the world. (Meets Core Curriculum requirements.)
- Eng 310 (F) 3 hrs. cr.
Professional Writing (Writing Intensive)
 An advanced course focused on the technical writing demands of professional occupations. Prerequisite: 6 hrs. composition.
- Eng 313 3 hrs. cr.
Technical Writing (Writing Intensive)
 An advanced composition course focused on the practical demands of on-the-job writing. Designed primarily for upperlevel students preparing for careers in science, technology or social science. Prerequisite: Six hours of composition.
- Eng 315 (S) 3 hrs. cr.
Exposition (Writing Intensive)
 The techniques of factual writing. Recommended for all students, especially those planning professional careers. Prerequisite: 6 hrs. composition.
- Eng 316 3 hrs. cr.
Creative Writing: Poetry (Writing Intensive)
 An advanced course in the writing of poetry, including analysis and emulation of professional models and workshop editing of original student writings. Prerequisite: English 216.
- Eng 317 3 hrs. cr.
Creative Writing: Fiction (Writing Intensive)
 An advanced course in the writing of fiction, including analysis and emulation of professional models and workshop editing of original student writings. Prerequisite: English 216
- Eng 319 (F) 3 hrs. cr.
Composition for Teachers (Writing Intensive)
 For prospective teachers of English. A review of grammar, practice in writing, and the theory of teaching writing.
- Eng 325 3 hrs. cr.
Children's Literature
 A reading, lecture and observation course for elementary education students, including evaluation of children's literature, its historical development, and its uses in the elementary school. Does not count toward an English major.
- Eng 330 3 hrs. cr.
Literature for Adolescents
 An extensive reading course for English education students including evaluation of adolescent literature, some methodology for classroom use, and a major unit on minority literature.
- Eng 335 3 hrs. cr.
Women's Literature
 A study of the literary tradition of women authors writing in English.
- Eng 340 3 hrs. cr.
Black American Literature
 Writings by Black Americans from the Colonial Period to the present.
- Eng 345 3 hrs. cr.
The American Novel
 Representative works of authors such as Hawthorne, Melville, Twain, and Faulkner.
- Eng 350 3 hrs. cr.
Recent American Fiction
 The major movements in American fiction since World War II.

Eng 355 3 hrs. cr.
Arthurian Literature
 Emphasizes the origins and development of Arthurian legends in the Middle Ages; studies treatment of Arthurian literature in modern times. Works read in modern English translation.

Eng 360 3 hrs. cr.
Twentieth Century Drama
 World drama from Shaw to the present. Emphasis on American and British dramatists.

Eng 370 3 hrs. cr.
Twentieth Century Poetry
 British and American poetry from Yeats to the present.

Eng 380 3 hrs. cr.
The English Novel
 Studies in the English novel from 1700 to the present, featuring representative works from authors such as Austen, Dickens, and Joyce.

Eng 385 3 hrs. cr.
Continental Novel
 Representative works by European novelists of the nineteenth and twentieth centuries. Emphasis is on the major European novelists such as Tolstoy, Dostoevsky, and Kafka. (Meets Core Curriculum requirements in Area 5, International Cultural Studies.)

Eng 390 3 hrs. cr.
Comparative Epic
 Intensive study of a range of Western and non-Western epic poetry and prose, with emphasis on literature from non-English speaking cultures.

Eng 391 3 hrs. cr.
Comparative Lyric Poetry
 Intensive study of a range of European and non-European lyric poetry in translation.

Eng 400 (S) 3 hrs. cr.
History of the English Language
 The ancestors of English and the effect of other languages, peoples, and cultures upon the development of English. Phonology, morphology, syntax, and usage of the language throughout its history.

Eng 410 3 hrs. cr.
Medieval English Literature
 Literature of England in the Anglo-Saxon and Middle English periods. Emphasis on the works of Chaucer.

Eng 415 3 hrs. cr.
Renaissance Prose and Poetry
 English poetry and prose from 1500 to 1660. Focus on major figures such as Sidney, Spenser, Donne, Marvell, and Milton.

Eng 420 3 hrs. cr.
English Drama to 1800
 English drama from its beginnings to 1800 (excluding Shakespeare). Focus on the period of great English drama of the Renaissance and on Restoration comedy. Includes major figures such as Marlowe, Jonson, Webster, and Congreve.

Eng 425 3 hrs. cr.
Restoration and Eighteenth Century English Literature
 The rise of Neoclassicism, the Enlightenment, and the decline of Neoclassicism in literature from 1660-1798, from Dryden to Gray.

Eng 430 3 hrs. cr.
The Romantic Period
 English literature from 1798 to 1832 treating representative authors from Wordsworth through Keats.

Eng 435 3 hrs. cr.
The Victorian Period
 English literature from 1832 to 1901 examining representative authors such as Tennyson, Carlyle, Browning, and Dickens.

Eng 450 (F) 3 hrs. cr.
Shakespeare
 Selected comedies, histories, tragedies, romances, and poems.

Eng 455 3 hrs. cr.
English Literature: Major Figures
 An intensive study of a major author or authors whose contribution to English literature is of significant worth. May be repeated with variation of author.

Eng 460 3 hrs. cr.
American Literature: Major Figures
 An intensive study of a major author or authors whose contribution to American literature is of significant worth. May be repeated with variation of author.

Eng 480 3 hrs. cr.
Literary Criticism
 Major schools of criticism and the major representatives of each school.

Eng 498 3 hrs. cr.
Seminar in Literature
 For advanced English majors or by permission of department head. Topic open.

Eng 499 1-3 hrs. cr.
Independent Study
 Individually directed study in selected areas for advanced English majors. Prerequisite: a GPA of 3.0 in English. Enrollment must be approved by adviser, department head and school dean.

Foreign Languages and Literatures

Arabic (Ara)

Ara 101 (Demand) 3 hrs. cr.
Beginning Arabic I
 Fundamental elements of modern standard Arabic. Basic sentence patterns and grammar.

Ara 102 (Demand) 3 hrs. cr.
Beginning Arabic II
 A continuation of 101. Further introduction to the basic skills of listening to and speaking the Arabic language. Prerequisite: Ara 101.

Ara 203 (Demand) 3 hrs. cr.
Intermediate Arabic I
 Systematic development of communicative skills in Arabic. Development of vocabulary. Drill in aural/oral skills. Prerequisite: Ara 102.

Ara 204 (Demand) 3 hrs. cr.
Intermediate Arabic II
 Continuation of 203. Further systematic development of communicative skills in Arabic. Development of vocabulary. Drill in aural/oral skills. Prerequisite: Arabic 203.

Chinese (Chi)

Chi 101 (Demand) 3 hrs. cr.
Beginning Chinese I (Mandarin)
 Pronunciation, grammar, elementary conversation, development of basic communicative skills.

Chi 102 (Demand) 3 hrs. cr.
Beginning Chinese II (Mandarin)
 A continuation of 101. Pronunciation, grammar, elementary conversation. Prerequisite: Chi 101.

Chi 203 (Demand) 3 hrs. cr.
Intermediate Chinese I (Mandarin)
 Systematic development of communicative skills in Chinese. Development of vocabulary. Drill in aural/oral skills. Prerequisite: Chi 102.

Chi 204 (Demand) 3 hrs. cr.
Intermediate Chinese II (Mandarin)
 A continuation of Chinese 203. Further systematic development of communicative skills in Chinese. Development of vocabulary. Drill in aural/oral skills. Prerequisite: Chi 203.

French (Fren)

Fren 101 (F, S) 3 hrs. cr.
Beginning French I
 An introduction to the basic skills of understanding, speaking, reading and writing in French and to the study of the French-speaking cultures.

Fren 102 (F, S) 3 hrs. cr.
Beginning French II
 A continuation of Fren 101. Emphasis on the basic skills of understanding, speaking, reading and writing in French and to the study of the French speaking cultures. Prerequisite: Proficiency level of NOVICE or Fren 101.

Fren 203 (F, S) 3 hrs. cr.
Intermediate French I
 A continuation of Fren 102. Emphasis on the basic skills of understanding, speaking, reading and writing in French and to the study of the French speaking cultures at the intermediate level. Prerequisite: Proficiency level of NOVICE PLUS, or Fren 102.

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Fren 204 (F, S) 3 hrs. cr.
Intermediate French II

A continuation of Fren 203. Emphasis on the basic skills of understanding, speaking, reading and writing in French and to the study of the French speaking cultures at the intermediate plus level. Prerequisite: Proficiency level of INTERMEDIATE or Fren 203.

Fren 298 (Demand) 1-8 hrs. cr.
Selected Topics in French

Topics not normally included in another course. Prerequisites are determined by the department and stipulated in the syllabus for each specific offering.

Fren 301 (F, S) 3 hrs. cr.
Readings & Conversation

Continued development of the four basic language skills in the target language through readings and conversation. The study of more complex patterns in communicative skills is emphasized. Prerequisite: Proficiency level of INTERMEDIATE PLUS or Fren 204.

Fren 302 (F, S) 3 hrs. cr.
Readings in Literature & Culture

Continued development of the four basic language skills in the target language through readings and conversation in culture and literature. The study of more complex patterns in communicative skills is emphasized. Prerequisite: Proficiency level of ADVANCED or Fren 301.

Fren 303 (Demand) 3 hrs. cr.
French Composition

Practice in writing French accompanied by a study of grammar and syntax. Prerequisite: Proficiency level of INTERMEDIATE PLUS, or Fren 204.

Fren 304 (Demand) 3 hrs. cr.
Advanced French Composition

Practice in writing French compositions. Thorough study of grammar, syntax and idiomatic expressions. Prerequisite: Proficiency level of ADVANCED, or Fren 303.

Fren 322 (Demand) 3 hrs. cr.
Survey of French Literature

French literature of the eighteenth, nineteenth and twentieth centuries. Prerequisite: Proficiency level of ADVANCED.

Fren 498 (Demand) 1-8 hrs. cr.
Seminar in French

Advanced topics not normally included in regular offerings. Prerequisites are determined by the department and stipulated in the syllabus for each specific offering.

Fren 499 (Demand) 1-3 hrs. cr.
Independent Study

Individual directed study in French. Prerequisite: Permission of instructor. The proposed study must be approved by instructor, adviser, department head and dean in advance of enrollment.

German (Ger)

Ger 101 (F, S) 3 hrs. cr.
Beginning German I

An introduction to the basic skills of understanding, speaking, reading and writing in German and to the study of the German speaking cultures.

Ger 102 (F, S) 3 hrs. cr.
Beginning German II

A continuation of Ger 101. Emphasis on the skills of understanding, speaking and writing in German and to the study of the German speaking cultures. Prerequisite: Proficiency level of NOV-ICE, or Ger 101.

Ger 203 (F, S) 3 hrs. cr.
Intermediate German I

A continuation of Ger 102. Emphasis on the basic skills of understanding, speaking, reading and writing in German and to the study of the German speaking cultures at the intermediate level. Prerequisite: Proficiency level of NOVICE PLUS, or Ger 102.

Ger 204 (F, S) 3 hrs. cr.
Intermediate German II

A continuation of Ger 203. Emphasis on the basic skills of understanding, speaking, reading and writing in German and to the study of the German speaking cultures at the intermediate plus level. Prerequisite: Proficiency level of INTERMEDIATE, or Ger 203.

Ger 298 (Demand) 1-8 hrs. cr.
Selected Topics in German

Topics not normally included in another course. Prerequisites are determined by the department and stipulated in the syllabus for each specific offering.

Ger 301 (F, S) 3 hrs. cr.
Readings & Conversation

Continued development of the four basic language skills in the target language through readings and conversation. The study of more complex patterns in communicative skills is emphasized. Prerequisite: Proficiency level of INTERMEDIATE PLUS, or Ger 204.

Ger 302 (F, S) 3 hrs. cr.
Readings in Literature and Culture

Continued development of the four basic language skills in the target language through readings and conversation in culture and literature. The study of more complex patterns in communicative skills is emphasized. Prerequisite: Proficiency level of ADVANCED or Ger 301.

Ger 498 (Demand) 1-8 hrs. cr.
Seminar in German

Advanced topics not normally included in regular offerings. Prerequisites are determined by the department and stipulated in the syllabus for each specific offering.

Ger 499 (Demand) 1-3 hrs. cr.
Independent Study

Individually directed study in German. Prerequisite: Permission of instructor. The proposed study must be approved by instructor, adviser, department head and dean in advance of enrollment.

Japanese (Jpn)

Jpn 101 (Demand) 3 hrs. cr.
Beginning Japanese I

Pronunciation, conversation and grammar. Aural/oral drill.

Jpn 102 (Demand) 3 hrs. cr.
Beginning Japanese II

Continuation of Japanese 101. Additional work in pronunciation, conversation and grammar. Aural/oral drill. Prerequisite: Jpn 101.

Jpn 203 (Demand) 3 hrs. cr.
Intermediate Japanese I

Grammar review and continued aural/oral practice. Prerequisite: Jpn 102.

Jpn 204 (Demand) 3 hrs. cr.
Intermediate Japanese II

Continuation of Japanese 203 with additional grammar review and continued aural/oral practice. Prerequisite: Jpn 203.

Russian (Rus)

Rus 101 (F, S) 3 hrs. cr.
Beginning Russian I

Emphasis on the basic communicative skills of listening, speaking, reading and writing the Russian language. Structural grammar and basic vocabulary.

Rus 102 (F, S) 3 hrs. cr.
Beginning Russian II

A continuation of 101. Further introduction to the basic skills of listening to, speaking, reading and writing the Russian language. Prerequisite: Rus 101 and proficiency level of NOVICE.

Rus 203 (F, S) 3 hrs. cr.
Intermediate Russian I

Systematic development of communicative skills in Russian. Development of vocabulary through reading, writing. Drill in aural/oral skills. Prerequisite: Rus 102 and a proficiency level of NOVICE PLUS.

Rus 204 (F, S) 3 hrs. cr.
Intermediate Russian II

A continuation of Rus 203. Further systematic development of communicative skills in Russian. Development of vocabulary through reading, writing. Drill in aural/oral skills. Prerequisite: Rus 203 and proficiency level of INTERMEDIATE.

Spanish (Span)

Span 101 (F, S) 3 hrs. cr.
Beginning Spanish I

An introduction to the basic skills of understanding, speaking, reading and writing in Spanish and to the study of the Spanish speaking cultures.

Span 102 (F, S) 3 hrs. cr.
Beginning Spanish II

A continuation of Spanish 101. Emphasis on the basic skills of understanding, speaking, reading and writing in Spanish and on the study of the Spanish speaking cultures. Prerequisite: Proficiency level of NOVICE, or Span 101.

Span 203 (F, S) 3 hrs. cr.

Intermediate Spanish I

A continuation of Span 102. Emphasis on the basic skills of understanding, speaking, reading and writing in Spanish and on the study of the Spanish speaking cultures at the intermediate level. Prerequisite: Proficiency level of NOVICE PLUS, or Span 102.

Span 204 (F, S) 3 hrs. cr.

Intermediate Spanish II

A continuation of Span 203. Emphasis on the basic skills of understanding, speaking, reading and writing in Spanish and on the study of the Spanish speaking cultures at the intermediate plus level. Prerequisite: Proficiency level of INTERMEDIATE, or Span 203.

Span 298 (Demand) 3 hrs. cr.

Selected Topics in Spanish

Topics not normally included in another course. Prerequisites are determined by the department and stipulated syllabus.

Span 301 (F, S) 3 hrs. cr.

Readings and Conversation

Continued development of the four basic language skills in the target language through readings and conversation. The study of more complex patterns in communicative skills is emphasized. Prerequisite: Proficiency level of INTERMEDIATE PLUS, or Span 204.

Span 302 (F, S) 3 hrs. cr.

Readings in Hispanic Literature and Culture

Continued development of the four basic language skills in the target language through readings and conversation in culture and literature. The study of more complex patterns in communicative skills is emphasized. Prerequisite: Proficiency level of ADVANCED, or Span 301.

Span 303 (F, Odd) 2 hrs. cr.

Spanish Syntax I

Spanish grammar review with emphasis on the Spanish verb system. Prerequisite: Proficiency level of ADVANCED, or Span 301.

Span 304 (F, Even) 2 hrs. cr.

Spanish Phonology

Advanced study of the Spanish sound system: Phonemic composition, historical antecedents, contemporary convention and variation. Study includes: contrasting inventories, syllabication, descriptive analysis, intonation as signal, accentual norms, word groups and consideration of dynamics and dialectology. Prerequisite: Proficiency level of ADVANCED, or Span 301.

Span 320 (S, Even) 3 hrs. cr.

Spanish Syntax II and Composition

Advanced study of the three major components of Spanish grammar, with emphasis on: verbal moods, lexical items, the effects of stress, idiomatic usage, orthography, the principles of translation and composition. Prerequisite: Proficiency level of ADVANCED, or Span 301.

Span 321 (F, Even) 3 hrs. cr.

Peninsular Literature from El Cid to Calderon

Spain's literary history and important representative works and writings from El Cid to Calderon. Taught in Spanish. Prerequisites: Proficiency level of ADVANCED, or Span 301.

Span 322 (S, Odd) 3 hrs. cr.

Peninsular Literature from the Romantics to the Present

Spanish literature since 1830 with emphasis on Romanticism, Realism, the generation of 1898, contemporary poetry and novel. Taught in Spanish. Prerequisites: Proficiency level of ADVANCED, or Span 301.

Span 333 (F, Odd) 3 hrs. cr.

Survey of Spanish-American Literature I

Survey of Spanish American literature from its beginnings to Marti. Taught in Spanish. Prerequisites: Proficiency level of ADVANCED and Span 302 or 320.

Span 334 (S, Even) 3 hrs. cr.

Survey of Spanish-American Literature II

Survey of Spanish American literature from Marti to present. Taught in Spanish. Prerequisites: Proficiency level of ADVANCED and Span 302 or 320.

Span 400 (F, Even) 3 hrs. cr.

20th Century Spanish Drama

Select works by Spain's most prominent, contemporary playwrights; socio-economic contexts, political ideologies and diverse life styles; dramatic literature and its impact on the cultural life of the nation. Prerequisites: A proficiency level of ADVANCED or Span 301.

Span 498 (Demand) 1-3 hrs. cr.

Seminar in Spanish Language/Literature

For upper-division students. Topics to be announced each time the course is offered. Prerequisite: Proficiency level of ADVANCED and at least 15 hrs. of upper-division Spanish courses.

Span 499 (F, S) 1-3 hrs. cr.

Independent Study

Individually directed study in selected areas for advanced majors in Spanish. Prerequisite: Must have completed 90 hrs. with a cumulative GPA of 3.0 and must have 15 hrs. in Spanish. The proposed study must be approved by instructor, adviser, department head and school dean prior to enrollment.

Other Languages

298 (Demand) 1-5 hrs. cr.

Special Topics in Foreign Languages

Languages not currently a part of the curriculum may be offered on appropriate demand, subject to the availability of faculty. For each offering, a course in a specific target language will be structured with the objective of developing the speaking, understanding, reading and writing skills of the student in the target language. Each offering will have a syllabus stating specific requirements of the course as well as prerequisites.

498 (Demand) 1-5 hrs. cr.

Advanced Topics in Foreign Languages

Advanced studies in foreign languages and literatures not currently part of the curriculum may be offered on appropriate demand, subject to the availability of faculty. For each offering, a course in a specific language will be structured with the objective of developing further the speaking, understanding, reading and writing skills of the student in the target language, as well as developing a further awareness of the literature of the specific language. Each offering will have a syllabus stipulating specific requirements of the course as well as prerequisites.

Geography (Geog)

Geog 211 (F, S) 3 hrs. cr.

Regions and Nations

Survey of the peoples of the earth and how their activities are influenced by climate, topography and natural resources.

Geog 298 (Demand) 3 hrs. cr.

Topics in Geography

Special geography topics of current interest. Subjects and instructors are changed each semester. Students are encouraged to submit areas of interest to the social science department.

Geog 311 (Demand) 3 hrs. cr.

Political Geography

Geographic factors which have influenced international relations and the policies of nations as political units. Emphasis on geopolitics, religion, racial and ethnic groupings and other factors which contribute to unity or disunity.

Geog 322 (Demand) 3 hrs. cr.

Economic Geography

World commodities and the geographic factors which affect their production and make them significant to the world economy.

Geog 412 (Demand) 3 hrs. cr.

Geography and Culture of Latin America

Cultural and physical regions and natural resources of South America, Latin America, Central America and the Caribbean Islands. Special emphasis on current problems and relations with the United States.

Geog 422 (Demand) 3 hrs. cr.

Geography of the United States and Canada

Geographic analysis of the United States and Canada with emphasis on regional variations of social, economic and physical phenomena.

Geog 498 (Demand) 1-2-3 hrs. cr.

Seminar in Geography

Study and analysis of selected topics in regional, urban-economic, cultural or physical geography.

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Geog 499

1-2-3 hrs. cr.

Independent Study

For students who wish to do an indepth study of some specialized topic or who wish to pursue a topic not considered in the department's course offerings. The individualized project will be directed by an instructor/adviser from the geography faculty in consultation with the student.

Geology (Geol)

Geol 110 (S, Even)

5 hrs. cr.

Introduction to Geology

Materials of the earth, structures and geologic features of the surface in relation to the processes and forces producing them. Laboratory study of minerals and rocks and topographic and geologic maps. Additional one-day field trips may be required. Three lectures, two 2-hr. labs per week. Prerequisite: Phys 100.

Geol 180 (Demand)

3 hrs. cr.

Introduction to Meteorology

Fundamentals of the circulation of the atmosphere, sequence of weather events and climate. Includes interpretation of weather maps and climatic data. Three lectures per week. Prerequisite: Physics 100 or equivalent (does not count toward a physics major). Cross listed as Physics 180.

Geol 300 (S, Odd)

4 hrs. cr.

Environmental Geology

An introduction to man's relationship to the earth's environment. The limitations of natural resources and future projections are considered along with man's demands upon the environment. Oil spills, surface mining, waste disposal, ground water and other problems of a geologic nature are reviewed. Natural environmental hazards, such as volcanoes, earthquakes, subsidence, mass movements and floods are examined. Prerequisite: Phys 100.

Geol 498 (Demand)

1-3 hrs. cr.

Studies in Geology

Seminar for upper division students only. Meets regularly a minimum number of hours each week equal to the number of credit hrs. Specialized instruction in some discipline of geology not normally covered in other courses. Prerequisite: Junior standing, Geol 110 and a minimum GPA of 2.5 in 16 hrs. of science. Permission of instructor required.

Geol 499 (Demand)

1-3 hrs. cr.

Problems in Geology

Individual work under the supervision of a staff member with credit and hours to be arranged. Problems may be undertaken in any field of geology with adequate preparation and the consent of the supervising instructor. Prerequisite: Minimum GPA of 3.0 in 20 hrs. of science, Geol 110 and a proven interest in geology.

History (Hist)

U. S. History

Hist 110 (F, S)

3 hrs. cr.

United States History 1492-1877

Survey of the United States from the era of discovery through reconstruction. Meets the Core Curriculum requirement for all majors. Educ 010 or a satisfactory score on the ACT Admissions Test is a prerequisite or corequisite to this course.

Hist 120 (F, S)

3 hrs. cr.

United States History 1877 to Present

Survey of the economic, social and political development of the United States from 1877 to the present. Meets the Core Curriculum requirement for all majors. A student cannot have credit for both Hist 120 and Hist 320. Educ 010 or a satisfactory score on the ACT Admissions Test is a prerequisite or corequisite to this course.

Hist 298 (Demand)

3 hrs. cr.

Topics in History

Special historical topics are examined. Students are encouraged to submit areas of personal interest to guide in the selection of the topics.

Hist 305 (F)

3 hrs. cr.

Introduction to Public History

Public history serves the public through training and education of social science students in policy analysis, information gathering and dissemination, preservation, organizational management and cultural resources management. This introduction to the applied historical profession features a direct participant approach.

Hist 310 (Demand)

3 hrs. cr.

United States Social and Intellectual History
Ideas, values and institutions that have nurtured and influenced the United States during the great industrial expansion, and emergence as a technology leader to the dilemmas of the 1970's and 1980's. Prerequisite: Three hrs. of history or consent of instructor.

Hist 315 (F, Even)

3 hrs. cr.

Economic History of the United States

Development of the American economy and its related institutions from the early national period to the present.

Hist 320 (Demand)

3 hrs. cr.

United States History 1877 to Present

Survey of the United States from Reconstruction to the present. Meets the Core Curriculum requirement for all majors. A student cannot have credit for both Hist 120 and Hist 320. Prerequisite: Hist 110.

Hist 325 (F, Odd)

3 hrs. cr.

The American Frontier

The westward expansion of the United States and its effects upon the social, political and economic institutions until the close of the frontier in 1890.

Hist 330 (Demand)

3 hrs. cr.

History of the American Indian

Social, political, diplomatic, military and legal history of the native American society.

Hist 335 (F, Even)

3 hrs. cr.

Diplomatic History of the United States to 1900

Diplomatic relations of the United States and the related development of its foreign policy from 1775 to 1900.

Hist 340 (S, Odd)

3 hrs. cr.

United States Twentieth Century Diplomacy

An investigation of United States' diplomacy in the present-day world. Emphasizes the role of the United States in world affairs.

Hist 343 (F)

3 hrs. cr.

Cold War American

Diplomacy, 1945 to Present An investigation of United States diplomacy and the present-day world. Emphasizes the role of the United States in world affairs.

Hist 345 (Demand)

3 hrs. cr.

Age of Jefferson and Jackson

Early political development in the United States. Evolution of the presidency over the first years of the new government, the triumph of Jeffersonian ideas, social trends and the rise of nationalism.

Hist 350 (S)

3 hrs. cr.

Civil War and Reconstruction

Causes of the Civil War, slavery and reform movements before the Civil War. Traces the development of reconstruction and political developments of the era.

Hist 355 (F, Even)

3 hrs. cr.

The South

Social, economic, political and intellectual history of the Southern United States concentrating on tracing the distinctive characteristics of the section and attempting to discover how a consciousness of the region's separateness evolved.

Hist 360 (F, Odd)

3 hrs. cr.

History of Missouri

Missouri's growth from its early settlement to the present. Emphasis on political, economic, institutional and social development.

Hist 365 (Demand)

3 hrs. cr.

United States Colonial History (Writing Intensive)

Colonial development from 1492 to 1781. Early colonization and British imperial policy are emphasized along with social, cultural, political and economic growth. Includes the Revolutionary War period.

Hist 370 (S)

3 hrs. cr.

Women in U.S. History

A survey of the historical experience of American women from the colonial period to the modern era.

Hist 400 (S) 3 hrs. cr.
United States Military Experience 1775 to Present

Major wars and other activities of the armed forces with emphasis on general military policy, strategy, tactics, organization and technology.

Hist 405 (Demand) 3 hrs. cr.
The United States 1870-1920

United States at the turn of the century with the impact of the Industrial Revolution and its effect on social, political and economic institutions, the Progressive Movement and World War I.

Hist 410 (S, Even) 3 hrs. cr.
The United States Since 1920

Impact of politics, diplomacy and economic trends of the United States since 1920.

Hist 496 3-8 hrs. cr.
Internship in History

Practical, professional training in archival skills and museum management in an area historical museum, archival institution or historic site, under the supervision of a faculty member and a professional from the participating institution. No more than three hours may be counted toward a major or minor. Prerequisite: Junior standing or above and departmental approval.

Hist 497 (F, S) 3 hrs. cr.
Seminar in Historical Research
 (Writing Intensive)

Topics pertaining to an era or historical problem of special interest to the instructor and students. Emphasis on student's ability to research, assimilate and present new areas of knowledge. Prerequisite: Junior standing, Eng 102 and 6 hrs. upper-division history.

Hist 498 (F or S) 3 hrs. cr.
Seminar in History

Advanced topics not covered in other history offerings. Emphasis on student's ability to research, assimilate and present new areas of knowledge. Prerequisite: Junior or senior status; prior instructor consultation is advised.

Hist 499 (F, S) 1-2-3 hrs. cr.
Independent Study

Individualized project directed by the instructor/adviser with approval of department head and school dean. Advanced standing in the major field and a minimum GPA of 3.0 are required.

European History

Hist 130 (F, S) 3 hrs. cr.
Western Civilization to 1660

Development and progress of western civilization from its origins through the Reformation. Changes in political organization, religion, artistic expression and daily life in the ancient Near East, Greece, Rome and Christian Europe. May be used to meet the Core Curriculum requirement in Area 5.

Hist 140 (F, S) 3 hrs. cr.
Western Civilization Since 1660

Western societies from the Baroque Era to the retreat of European colonialism. Major emphasis on development of the nation-state, the impact of industrialization, changes in political and religious outlook, the impact of revolutions and two world wars. May be used to meet the Core Curriculum requirement in Area 5.

Hist 298 (Demand) 3 hrs. cr.
Topics in History

Special historical topics. Students are encouraged to submit areas of personal interest to guide in the selection of the topics.

Hist 369 (Demand) 3 hrs. cr.
Nineteenth Century Europe

Major alterations of European society during this century. Emphasis on industrialization, imperialism, revolutions, rise of socialism/communism, middleclass liberal capitalism and individual national events.

Hist 370 (Demand) 3 hrs. cr.
Twentieth Century Europe

A survey approach with emphasis on World Wars I and II, the League of Nations, the United Nations, totalitarian systems and current European/world problems.

Hist 375 (F, Even) 3 hrs. cr.
English History to 1660 (Writing Intensive)

The peoples of England and their institutions from prehistoric settlement through the English civil wars. Major topics include the impact of Anglo-Saxon and Norman invasions, the changing roles of monarchy and of parliament, and life among various social classes.

Hist 380 (S, Odd) 3 hrs. cr.
English History Since 1660

English people and institutions from the restoration of Charles II to the present. Concentration on the emergence of modern Parliamentary democracy, the industrial revolution, the Empire and current position of England in world affairs.

Hist 387 (F, Odd) 3 hrs. cr.
History of Russia to 1796

History of Russia from pre-Tsarist times through the reign of Peter the Great. Emphasis on the land and the people, national characteristics and political institutions.

Hist 388 (S, Even) 3 hrs. cr.
History of Russia

Since 1796 History of Russia since 1796 and the Soviet Union since the Bolshevik Revolution. Investigates the problems posed by Tsarist autocracy and serfdom, the origins and course of the Bolshevik Revolution, and Russian life under Communism.

Hist 390 (Demand) 3 hrs. cr.
History of Germany

Social, political, military and economic history of Germany, with major concentration on the post 1519 period. Emphasis on the decline of the Medieval Empire, princely absolutism, national unification, Weimar Republic, Third Reich and post World War II.

Hist 420 (F, Odd) 3 hrs. cr.
Medieval History

Europe from the end of the Roman Empire to c. 1350. Emphasis on the emergence of the Papacy, manorialism and feudalism, the development of cities and an urban economy, and on intellectual life and artistic expression.

Hist 425 (S, Even) 3 hrs. cr.
The Renaissance and the Reformation 1350-1559

An overview of Europe from 1350 to 1559. Changes in thought and artistic expression, the divisions within Western Christendom, the emergence of national monarchies, and the impact of economic change on daily life.

Hist 435 (F, Even) 3 hrs. cr.
The Era of the French Revolution and Napoleon

An examination and analysis of events in France and their impact on Europe from 1789 to 1815. Interplay of ideas and people and the quest for a political settlement under a constitutional monarchy, republic and empire.

Hist 440 (S, Even) 3 hrs. cr.
European Intellectual History

Intellectual, cultural and social developments in Europe from the Italian Renaissance to the present. Examination of the rise of scientific thought, the Enlightenment, Romanticism, nationalism, political ideologies, social reforms and existentialism.

Hist 497 (F, S) 3 hrs. cr.
Seminar in Historical Research
 (Writing Intensive)

Topics pertaining to an era or historical problem of special interest the instructor and student. Emphasis on student's ability to research, assimilate and present new areas of knowledge. Prerequisites: Junior standing, Eng 102 and 6 hrs. upper-division history.

Hist 498 (F or S) 3 hrs. cr.
Seminar in History

Advanced topics not covered in other history offerings. Emphasis on student's ability to research, assimilate and present new areas of knowledge. Prerequisite: Junior or senior status; prior instructor consultation is advised.

Hist 499 (F, S) 1-2-3 hrs. cr.
Independent Study

Individualized project directed by the instructor/adviser with approval of the department head and the school dean prior to enrollment. Advanced standing in the major field and a minimum GPA of 3.0 are required.

East Asian History

Hist 298 (Demand) 3 hrs. cr.
Topics in History

Special historical topics. Students are encouraged to submit areas of personal interest to guide in the selection of the topics.

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Hist 415 (F, Even) 3 hrs. cr.
History of China

Survey of modern China. Emphasis on Chinese society, political developments and relations with the West in the nineteenth and twentieth centuries.

Hist 430 (Demand) 3 hrs. cr.
History of Japan

Japan's history from the middle of the nineteenth century to the present. Attention is given to Japan's contact with the West.

Hist 497 (F, S) 3 hrs. cr.
Seminar in Historical Research
 (Writing Intensive)

Topics pertaining to an era or historical problem of special interest to the instructor and students. Emphasis on student's ability to research, assimilate and present new areas of knowledge. Prerequisites: Junior standing, Eng 102 and 6 hrs. upper-division history.

Hist 498 (F or S) 3 hrs. cr.
Seminar in History

Advanced topics not covered in other history offerings. Emphasis is placed on the student's ability to research, assimilate and present new areas of knowledge. Prerequisite: Junior or senior status; prior instructor consultation is advised.

Hist 499 (F, S) 1-2-3 hrs. cr.
Independent Study

Individualized project directed by the instructor/adviser prior to enrollment in the study. Advanced standing in the major field and a minimum GPA of 3.0 are required.

Global History

Hist 341 (F) 2 hrs. cr.
Problems in Recent Diplomatic History

Selected issues in recent global history from the perspective of a United Nations member state. Each student will investigate one issue, share the results of the research with the class and in a paper explain the historical background of the selected nation's position on the issue. Both the nation and topics studied will be determined by MSSC's participation in the Midwest Model United Nations and similar conferences. Although the course is a prerequisite for delegates to these conferences, enrollment is not limited to Model UN participants.

Hist 497 (F, S) 3 hrs. cr.
Seminar in Historical Research
 (Writing Intensive)

Topics pertaining to an era or historical problem of special interest to the instructor and students. Emphasis on student's ability to research, assimilate and present new areas of knowledge. Prerequisites: Junior standing, Eng 102 and 6 hrs. upper-division history.

Mathematics (Math)

Math 020 (F, S) 3 hrs. cr.
Beginning Algebra

Operations on signed numbers, linear equations and inequalities, systems of linear equations, polynomial arithmetic. No credit towards baccalaureate degree.

Math 030 (F, S) 3 hrs. cr.
Intermediate Algebra

Factoring, operations on polynomials, radicals, quadratic equations. Prerequisite: One year of high school algebra and satisfactory score on the Mathematics Placement Test or Math 020 with a grade of "C". No credit towards baccalaureate degree.

Math 110 (F, S) 3 hrs. cr.
Introduction to College Mathematics

Basic college mathematics with an introduction to various areas of mathematics such as linear programming, set theory, probability and statistics and geometry. Satisfies the requirement in mathematics for the Core Curriculum. Prerequisite: One year of high school algebra and satisfactory score on the Mathematics Placement Test or Math 020 with a grade of "C".

Math 111 (F, S) 3 hrs. cr.
Math for Elementary Teachers I

The real number system and its subsystems, relations and functions, numeration systems. Prerequisite: One year of high school algebra and satisfactory score on the Mathematics Placement Test or Math 020 with a grade of "C". (Will not meet the Core Curriculum mathematics requirement for nonelementary education majors.)

Math 112 (Demand) 3 hrs. cr.
Trigonometry

Trigonometric and logarithmic functions, complex numbers, with applications. Prerequisite: Two units of high school algebra, one unit high school geometry and satisfactory score on the Mathematics Placement Test or Math 030 with grade of "C," or permission of instructor.

Math 120 (F, S) 3 hrs. cr.
Math for Elementary Teachers II

A continuation of Math 111. Sets of points, metric and non-metric geometry, probability. Recommended for prospective elementary teachers. Prerequisite: Math 111 or permission of instructor.

Math 130 (F, S) 3 hrs. cr.
College Algebra

Linear equations, radicals, exponents, quadratic equations, inequalities, theory of equations and the binomial theorem. Prerequisite: Two units of high school algebra, one unit of high school geometry and satisfactory score on the Mathematics Placement Test or Math 030 with grade of "C".

Math 131 (F, S) 3 hrs. cr.
Finite Mathematics

Finite mathematics with algebra that is designed for business, social science and computer science students. Set theory, functions, matrices, linear programming, probability and statistics, with applications. Prerequisite: Two units of high school algebra and satisfactory score on the Mathematics Placement Test or Math 030 with a grade of "C".

Math 140 (F, S) 3 hrs. cr.
Algebra and Trigonometry

Equivalent of Math 112 and Math 130. Prerequisite: Two units of high school algebra, one unit of high school geometry and satisfactory score on the Mathematics Placement Test or permission of instructor. Only two hours credit for students with Math 112 or Math 130 credit.

Math 150 (F, S) 5 hrs. cr.
Calculus with Analytic Geometry I

Differentiation and integration of algebraic functions and plane analytic geometry using vectors. Prerequisite: Math 140 with a grade of "C" or four units of high school mathematics and a satisfactory score on the Mathematics Placement Test.

Math 250 (F, S) 5 hrs. cr.
Calculus with Analytic Geometry II

Differentiation and integration of transcendental functions and trigonometric functions, polar coordinates, theory of limits and continuity, parametric equations. Applications to physical problems. Prerequisite: Math 150 with a grade of "C".

Math 260 (F, S) 5 hrs. cr.
Calculus with Analytic Geometry III

Solid analytic geometry, indeterminate forms, infinite series, partial differentiation and multiple integrals. Prerequisite: Math 250 with a grade of "C".

Math 300 (S) 3 hrs. cr.
Fundamentals of Mathematical Thought

Introduction to modern algebra, analysis and proofs; sets, logic, predicate calculus, relations, functions, logical development of number systems, cardinality and divisibility. Prerequisite or corequisite: Math 260.

Math 302 (Demand) 3 hrs. cr.
Calculus for the Management and Social Sciences

Calculus applications of differentiation and integration in business and social sciences. Prerequisite: Math 130 or Math 131 or two years high school algebra and satisfactory score on the Mathematics Placement Test. Will not count toward a major in mathematics.

Math 310 (Demand) 3 hrs. cr.
Elementary Statistics

Provides a basic statistical background for the various majors for advanced study in their specialties. Topics include data reduction, measures of central tendency, linear regression, correlation and hypothesis testing, with applications to social, managerial, biological and physical sciences. Satisfies the Core Curriculum requirements in mathematics. Prerequisite: Two years high school algebra or Math 130. Will not count toward a major in mathematics.

Math 312 3 hrs. cr.
Problems of Teaching Arithmetic in the Elementary Schools
 (See Educ 312 for description.) Will not count toward a major in mathematics.

Math 322 (S) 3 hrs. cr.
Differential Equations
 Ordinary differential equations of first and second order, linear equations with constant coefficients, Laplace transforms, power series solutions, numerical solutions, with applications. Prerequisite: Math 260.

Math 332 (F, Even) 3 hrs. cr.
Geometry
 Geometric theory from a modern axiomatic viewpoint. Includes an introduction to finite, projective, Euclidean and non-Euclidean geometries. Prerequisite: Math 250.

Math 339 (S) 3 hrs. cr.
Teaching Mathematics in Secondary Schools
 Introduction to the instructional planning, materials and methods of teaching mathematics in the secondary schools. Includes brief survey of the history of algebra and trigonometry. Part of the Professional Semester. Will not count toward a major in mathematics.

Math 342 (F, Odd) 3 hrs. cr.
Abstract Algebra
 Number theory, equivalence and congruence, theory of groups, rings, ideals, integral domains and fields. Prerequisite: Math 300.

Math 350 (S, Even) 3 hrs. cr.
Introduction to Numerical Analysis Error
 Analysis, solution of polynomial and transcendental equations, collocation polynomials, matrix methods, numerical differentiation and integration. Prerequisite: Math 250 and Comp 110 or higher.

Math 351 (F, Even) 3 hrs. cr.
Linear Algebra
 Algebra of linear equations and matrices, vector spaces, linear mappings and transformations, determinants, bilinear and quadratic forms, linear functionals, vector inner products and cross products. Prerequisite or corequisite: Math 300.

Math 361 (F) 3 hrs. cr.
Introduction to Probability
 Theory of probability using concepts and methods of calculus. A study of discrete and continuous distributions. The central limit theorem. Prerequisite: Math 260.

Math 371 (F, Odd) 3 hrs. cr.
Introduction to Operations Research
 (Writing Intensive)
 Operations research/management science for computer science and mathematics students. Includes linear programming, project scheduling, Markov chains, queueing theory. Prerequisite: Math 260 and computer programming ability.

Math 421 (S, Even) 3 hrs. cr.
Introduction to Advanced Calculus
 Methods of real analysis, basic topology of real numbers, sequences and series, the derivative and the Riemann integral. Prerequisite: Math 300.

Math 431 (S, Odd) 3 hrs. cr.
Numerical Analysis
 Fundamental numerical analysis theorems. Error Analysis, data approximation techniques, difference calculus, numerical solution of differential equations. Prerequisite: Math 322 and Comp 110 or higher.

Math 452 (S, Even) 3 hrs. cr.
Mathematical Models (Writing Intensive)
 Applying mathematics in formulating and analyzing models for real world problems. Topics include game theory, graph models, deterministic and stochastic models and computer simulation. Prerequisite Math 322 and Comp 110 or higher.

Math 462 (S, Odd) 3 hrs. cr.
Introduction to Mathematical Statistics
 Distributions of discrete and continuous random variables, sampling distributions and estimation of parameters. Investigation of the techniques of hypothesis testing, correlation and regression. Prerequisite: Math 361.

Math 498 (Demand) 1-3 hrs. cr.
Seminar in Mathematics
 For upper division math or related majors. Regular meeting times per week are equal to the number of credit hrs. determined by the department for a given semester. Gives both broad and specialized knowledge of the discipline. Prerequisite: Advanced standing in major field and consent of department head.

Math 499 (Demand) 1-3 hrs. cr.
Independent Study
 Course structured by the adviser with approval of the department head and school dean. Prerequisite: Advanced standing in the major field with a grade point average of 3.0. Students must make application several weeks in advance. Registration must be approved by the adviser, department head and school dean. See department head for details.

Music (Mus)

Mus 102, 202, 302, 402 (S) 1 hr. cr.
Opera or Musical Theatre Performance
 Performance of a role along with active participation in the different areas of staging the musical or opera. Credit is applied after departmental evaluation and approval at the end of the semester. (Students may not receive credit from both the theatre department and music department for the same production.)

Mus 109 (S) 2 hrs. cr.
Sight Singing and Ear Training
 Basic skills and concepts needed for sight reading, sight singing, solfege, rhythmic dictation, melodic dictation and harmonic dictation are introduced, studied and applied in aural and notated musical examples. Prerequisite: Mus 111.

Mus 110 (F, S) 3 hrs. cr.
Music Appreciation
 Designed to give the non-music major an insight into musical masterpieces from all eras of music literature.

Mus 111 (F) 3 hrs. cr.
Music Theory
 Basic fundamentals of music with initiation of harmonic analysis and partwriting. Basic course for music majors; others by consent of instructor.

Mus 112 (S) 3 hrs. cr.
Music Theory
 Sequential course in written harmony, including inversion, seventh chords and non-harmonic tones. Prerequisite: Mus 111.

Mus 113 (F, S) 1 hr. cr.
Class Piano
 Reading skills, fundamental piano technique, basic musicianship and elementary repertoire. Material studied varies in accordance with educational purpose. No prerequisite.

Mus 121, 122, 321, 322 Mus (F, S) 2 hrs. cr.
Concert Choral
 Open to all college students. Preparation and performance of great choral works. Prerequisite: Permission of instructor. Each class may be repeated one time for credit.

Mus 133 (F) 2 hrs. cr.
Opera and Musical Theatre
 History, production and performance of one act operas, operatic excerpts, musicals and light opera. Academic concentration the first six weeks on opera history and opera production with the last 10 weeks focusing upon the particular musical or light opera selected for production the spring semester of that year.

Mus 139 (F) 2 hrs. cr.
Musical Theatre and Opera
 History, production and performance of one act operas, operatic excerpts, musicals and light opera. Academic concentration the first six weeks on musicals and their production with the last 10 weeks focusing on the particular one act opera(s) and/or operatic excerpts selected for production the spring semester of that year.

Mus 141, 142, 341, 342 (F, S) 1 hr. cr.
Jazz Band
 A stage band open to all students who are qualified instrumentalists. The Jazz Band will prepare and present several concerts during the year, while dealing primarily with music of the jazz idiom. Prerequisite: Permission of instructor. Each class may be repeated twice for credit. Prerequisite: Mus 191, 391, 192 or 392.

Mus 151, 152, 351, 352 (F, S) 2 hrs. cr.
Orchestra
 Audition is available to all college students who play an orchestral instrument. The orchestra will present public concerts, performing standard and orchestral literature. Prerequisite: Audition. Each class may be repeated one time for credit.

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<p>Mus 161, 162, 361, 362 (F, S) 1 hr. cr. Southern Exposure Small select ensemble. Performs all literature from madrigal to modern music, written for small vocal ensemble. Prerequisite: Audition. Each class may be repeated twice for credit. Corequisite: Mus 121, 122, 321 or 322.</p>		<p>Mus 232 (F) 1 hr. cr. Brass Techniques Class instruction in the brass instruments, including a study of methods and materials to be used in the teaching of beginning students.</p>		<p>Mus 411 (F) 2 hrs. cr. Marching Band Methods Procedures needed in organization, promotion, equipping, rehearsing and performance of a marching band including study of musical repertoire and charting of field maneuvers. For music majors; others by consent of instructor. Prerequisite: 2 semesters marching band. Corequisite: Mus 191 or 391.</p>
<p>Mus 171, 172, 371, 372 (F, S) 1 hr. cr. Brass Choir Open to all students with band instrument experience. Performance of literature for brass ensemble. Each class may be repeated twice for credit.</p>		<p>Mus 233 (S) 1 hr. cr. Percussion Techniques (Not open to percussion majors) Class instruction in the percussion instruments, including a study of methods and materials to be used in the teaching of beginning students.</p>		<p>Mus 420 (F) 3 hrs. cr. Form and Analysis Harmonic and formal analysis of composition from the Baroque Era through contemporary music. Prerequisite: Mus 212 or permission of instructor.</p>
<p>Mus 182 (F) 2 hrs. cr. Conducting Techniques Baton technique, factors in interpretation, score reading and rehearsal procedures for instrumental and vocal organizations. Included is experience conducting live rehearsals. Prerequisite: Mus 112.</p>		<p>Mus 234 (F) 1 hr. cr. Woodwind Techniques Class instruction in the woodwind instruments, including a study of methods and materials to be used in the teaching of beginning students.</p>		<p>Mus 431 (S) 3 hrs. cr. Orchestration Capacities of orchestral instruments. Scoring for various orchestral combinations, including full orchestra. Prerequisite: Mus 212 or permission of instructor.</p>
<p>Mus 191, 391 (F) 2 hrs. cr. Marching Band Open to all qualified students with high school band experience. A study and practice of the fundamentals of drill and presentation of musical marching maneuvers. Prerequisite: Permission of instructor. Each class may be repeated twice for credit.</p>		<p>Mus 240 (F, S) 0 hrs. cr. Recital Attendance Attendance at designated afternoon and evening recitals and concerts is required of all music majors each semester.</p>		<p>Mus 432 (F) 2 hrs. cr. Music in the Public School Acquaints music education majors with problems of administration and supervision of the school music program through high school level. Content includes the place of music in the school program, music equipment, schedules, budget, instructional problems and public relations in music. Prerequisite: Mus 212.</p>
<p>Mus 192, 392 (S) 2 hrs. cr. Concert Band Open to all qualified students with band instrument experience. Rehearsal and public performances of composite repertoire. Prerequisite: Permission of instructor. Each class may be repeated twice for credit.</p>		<p>Mus 298 (Demand) 1-3 hrs. cr. Selected Topics in Music Study of special topics in music not included in another course. Prerequisite: Permission of instructor.</p>		<p>Mus 444 (F) 2 hrs. cr. Advanced Conducting Techniques Conducting skills, including irregular beat patterns, advance technical problems, and methods developed for solving them. Prerequisite: Mus 182.</p>
<p>Mus 210 (F) 2 hrs. cr. Sight Singing and Ear Training Sequential course in using the skills and concepts in sight singing and ear training. Sight reading of melodies of increasing difficulty. Ear training emphasis will be in harmonic dictation. Prerequisite: Mus 109.</p>		<p>Mus 309 (F) 2 hrs. cr. Choral Techniques Designed to formulate principles for directing secondary and adult choral ensembles. Covers motivational techniques, including body language, verbal skills, understanding of the vocal mechanism and the function of rhythm in the musical phrase. Explores various organizational methods, rehearsal procedures and teaching materials. Also includes conducting techniques conducive to encouraging proper vocal technique. Prerequisite: Permission of instructor.</p>		<p>Mus 450 0 hrs. cr. Senior Recital A solo recital is required of all music majors. The recital is to be given within the last year of residency. Corequisite: Mus 407 or 408.</p>
<p>Mus 211 (F) 3 hrs. cr. Music Theory Modulation, diatonic, seventh chords, altered chords, advanced partwriting procedures. Prerequisite: Mus 112.</p>		<p>Mus 311 (F) 3 hrs. cr. History of Music General survey of history of music from Greek period to 18th century. Prerequisite: Mus 211.</p>		<p>Mus 498 (Demand) 1-3 hrs. cr. Seminar in Music For upper division music majors or related majors. Topics and methods not included in other courses. Permission of instructor is required.</p>
<p>Mus 212 (S) 3 hrs. cr. Music Theory Secondary dominant chords, augmented triads and sixth chords, advanced modulation, introduction to contemporary techniques. Prerequisite: Mus 211.</p>		<p>Mus 312 (S) 3 hrs. cr. History of Music From 18th century to the present. Score reading required. Prerequisite: Mus 211.</p>		<p>Mus 499 (Demand) 1-3 hrs. cr. Independent Study Structured by the adviser with approval of the department head and school dean. Prerequisite: Advanced standing in the major field with a GPA of 3.0. Registration must be approved by the adviser, department head and school dean.</p>
<p>Mus 219 (Demand) 2 hrs. cr. Vocal Diction Applied voice students receive instruction in the correct pronunciation of English, Italian, French, German and Ecclesiastical Latin as used in the study of vocal literature.</p>		<p>Mus 332 (F, S) 2 hrs. cr. Music for the Elementary School Methods of teaching music in the elementary classroom and a study of materials to be used.</p>		<p>Applied Music (Private Lessons) Major in: Brass, Keyboard, Percussion, String, Woodwind and Voice. All applied music offerings may be repeated twice for credit.</p>
<p>Mus 231 (S) 1 hr. cr. String Techniques Class instruction in the string instruments, including a study of methods and materials to be used in the teaching of beginning students.</p>		<p>Mus 333 (Demand) 2 hrs. cr. Music for the Elementary Grades Methods of teaching music in the elementary classroom and a study of materials to be used. Restricted to music majors and advanced music students. Prerequisite: Mus 112.</p>		<p>Mus 115 Applied Music Brass Elective 1 hr. cr. Mus 125 Applied Music Keyboard Elective 1 hr. cr. Mus 135 Applied Music Percussion Elective 1 hr. cr. Mus 145 Applied Music String Elective 1 hr. cr. Mus 155 Applied Music Woodwind Elective 1 hr. cr. Mus 165 Applied Music Voice Elective 1 hr. cr. Mus 116 Applied Music Brass Elective 1 hr. cr. Mus 126 Applied Music Keyboard Elective 1 hr. cr.</p>

Mus 136	Applied Music Percussion Elective	1 hr. cr.
Mus 146	Applied Music String Elective	1 hr. cr.
Mus 156	Applied Music Woodwind Elective	1 hr. cr.
Mus 166	Applied Music Voice Elective	1 hr. cr.
Mus 315	Applied Music Brass Elective	1 hr. cr.
Mus 325	Applied Music Keyboard Elective	1 hr. cr.
Mus 335	Applied Music Percussion Elective	1 hr. cr.
Mus 345	Applied Music String Elective	1 hr. cr.
Mus 355	Applied Music Woodwind Elective	1 hr. cr.
Mus 365	Applied Music Voice Elective	1 hr. cr.
Mus 316	Applied Music Brass Elective	1 hr. cr.
Mus 326	Applied Music Keyboard Elective	1 hr. cr.
Mus 336	Applied Music Percussion Elective	1 hr. cr.
Mus 346	Applied Music String Elective	1 hr. cr.
Mus 356	Applied Music Woodwind Elective	1 hr. cr.
Mus 366	Applied Music Voice Elective	1 hr. cr.
Mus 117	Applied Music Brass Elective	2 hrs. cr.
Mus 127	Applied Music Keyboard Elective	2 hrs. cr.
Mus 137	Applied Music Percussion Elec	2 hrs. cr.
Mus 147	Applied Music String Elective	2 hrs. cr.
Mus 157	Applied Music Woodwind Elective	2 hrs. cr.
Mus 167	Applied Music Voice Elective	2 hrs. cr.
Mus 118	Applied Music Brass Elective	2 hrs. cr.
Mus 128	Applied Music Keyboard Elective	2 hrs. cr.
Mus 138	Applied Music Percussion Elec	2 hrs. cr.
Mus 148	Applied Music String Elective	2 hrs. cr.
Mus 158	Applied Music Woodwind Elec	2 hrs. cr.
Mus 168	Applied Music Voice Elective	2 hrs. cr.
Mus 317	Applied Music Brass Elective	2 hrs. cr.
Mus 327	Applied Music Keyboard Elective	2 hrs. cr.
Mus 337	Applied Music Percussion Elec	2 hrs. cr.
Mus 347	Applied Music String Elective	2 hrs. cr.
Mus 357	Applied Music Woodwind Elec	2 hrs. cr.
Mus 367	Applied Music Voice Elective	2 hrs. cr.
Mus 318	Applied Music Brass Elective	2 hrs. cr.
Mus 328	Applied Music Keyboard Elective	2 hrs. cr.
Mus 338	Applied Music Percussion Elec	2 hrs. cr.
Mus 348	Applied Music String Elective	2 hrs. cr.
Mus 358	Applied Music Woodwind Elective	2 hrs. cr.
Mus 368	Applied Music Voice Elective	2 hrs. cr.
Mus 217	Applied Music Brass Elective	2 hrs. cr.
Mus 227	Applied Music Keyboard Elective	2 hrs. cr.
Mus 237	Applied Music Percussion Elec	2 hrs. cr.
Mus 247	Applied Music String Elective	2 hrs. cr.
Mus 257	Applied Music Woodwind Elective	2 hrs. cr.
Mus 267	Applied Music Voice Elective	2 hrs. cr.
Mus 218	Applied Music Brass Elective	2 hrs. cr.
Mus 228	Applied Music Keyboard Elective	2 hrs. cr.
Mus 238	Applied Music Percussion Elec	2 hrs. cr.
Mus 248	Applied Music String Elective	2 hrs. cr.
Mus 258	Applied Music Woodwind Elec	2 hrs. cr.
Mus 268	Applied Music Voice Elective	2 hrs. cr.
Mus 417	Applied Music Brass Elective	2 hrs. cr.
Mus 427	Applied Music Keyboard Elective	2 hrs. cr.
Mus 437	Applied Music Percussion Elec	2 hrs. cr.
Mus 447	Applied Music String Elective	2 hrs. cr.
Mus 457	Applied Music Woodwind Elec	2 hrs. cr.
Mus 467	Applied Music Voice Elective	2 hrs. cr.
Mus 418	Applied Music Brass Elective	2 hrs. cr.
Mus 428	Applied Music Keyboard Elective	2 hrs. cr.
Mus 438	Applied Music Percussion Elec	2 hrs. cr.
Mus 448	Applied Music String Elective	2 hrs. cr.
Mus 458	Applied Music Woodwind Elec	2 hrs. cr.
Mus 468	Applied Music Voice Elective	2 hrs. cr.
Elective in Jazz Improvisation		
Mus 114		1 hr. cr.
Mus 214		2 hrs. cr.
Elective in Piano Proficiency		
Mus 103		1 hr. cr.
Mus 203		2 hrs. cr.

Paralegal (PLS)

PLS 201 (F) 3 hrs. cr.

Introduction to Legal Assistance

American legal system with emphasis on the roles, skills and tasks of the paralegal. Topics include professional ethics, client interviewing and legal analysis.

PLS 298 (Demand) 3 hrs. cr.

Topics in Paralegal Studies

Special topics of current interest to the student. Subjects are changed each semester. Students are encouraged to submit areas of interest to the social science department.

PLS 301 (F, S) 3 hrs. cr.

Legal Environment of Business I

(See GB 301).

GB 302 (F, S) 3 hrs. cr.

Legal Environment of Business II

(See GB 302).

GB 302 (F, Odd) 3 hrs. cr.

Legal Research

Research involved in case preparation; use of the law library and the various digests, encyclopedias, reporters, etc., contained therein.

PLS 310 (Demand) 3 hrs. cr.

Law, Society and the Judicial Process

(Writing Intensive)

American legal system with special attention to the organization, methods, processes and behaviors of the judiciary.

PLS 311 (S, Odd) 3 hrs. cr.

Property

Laws relating to real and personal property with emphasis on the procedures and forms used in real estate transactions and conveyances such as; deeds and contracts.

PLS 312 (S, Even) 3 hrs. cr.

Civil Litigation

Process of civil litigation from filing to appeal including rules for instituting and conducting lawsuits before federal and state courts, rules of procedure, and the preparation of pertinent legal forms.

PLS 320 (S, Even) 3 hrs. cr.

Family Law

Laws regulating marriage, adoption, divorce, division of property, child custody and support, adult abuse and termination of parental rights and the preparation of pertinent legal forms.

PLS 401 (F, Even) 3 hrs. cr.

Wills, Trusts and Probate

Law of wills, trusts and intestate succession; includes analysis of the administration and probate of estates and the preparation of pertinent legal forms.

PSc 431 (F, Even) 3 hrs. cr.

Constitutional Law I

(See PSc 431).

PSc 432 (S, Odd) 3 hrs. cr.

Constitutional Law II

(See PSc 432).

PLS 491 (Demand) 3 hrs. cr.

Internship

An applied internship of 135 hrs. done under the supervision of a practicing professional who is directly engaged in a day-to-day application of the law (i.e. judges, attorneys, government officials) as approved by department head.

PLS 498 (Demand) 3 hrs. cr.

Senior Seminar

Comprehensive analysis and review of selected legal topics to be announced when course is offered. Prerequisite: 9 hrs. of paralegal studies or consent of instructor.

PLS 499 1-2-3 hrs. cr.

Independent Study

Study and research by the student under the direction and supervision of instructor/adviser with prior approval by department head and school dean. Prerequisites: Advanced standing in the major field and a minimum GPA of 3.0

Philosophy (Phil)

Phil 140 3 hrs. cr.

Critical Thinking

Introduction to logic, with special emphasis on common errors and fallacies in reasoning.

Phil 201 3 hrs. cr.

Introduction to Philosophy

Comparative survey of major types of philosophy and of representative problems in philosophy. Satisfies 3 hrs. of Core Curriculum requirements in Area 2C on page ().

Phil 212 3 hrs. cr.

Ethics

Exploration of the problems of value and personal moral standards, comparative survey of major ethical systems and evaluation of the chief ethical struggles in contemporary society.

Phil 298 3 hrs. cr.

Topics in Philosophy

Studies in a variety of philosophical subjects. Topic open.

Phil 301 3 hrs. cr.

Ancient Philosophy

Historical study of ancient philosophy, with special emphasis on the writings of Plato and Aristotle. Prerequisites: 3 hrs. of philosophy or permission of instructor.

Phil 302 3 hrs. cr.

Modern Philosophy

A survey of the major schools of western philosophy from 1550 to 1850. Prerequisites: 3 hrs. of philosophy or permission of instructor.

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Phil 312 3 hrs. cr.
Biomedical
 Ethics A comprehensive investigation of ethical problems relating to health care and the practice of medicine, including study of such issues as euthanasia and the right to die, abortion, confidentiality, patient rights and professional responsibilities, allocation of medical resources, and medical experimentation.

Phil 320 3 hrs. cr.
Comparative Religion
 A philosophical and historical survey, emphasizing the world's major living religions. (Meets Core Curriculum requirements in Area 5, International Cultural Studies.)

Phil 420 3 hrs. cr.
Philosophy of Science
 Investigation of the nature and scope of scientific inquiry. Topics include the logic of scientific reasoning, the nature of scientific theories, the conceptual presuppositions of science, and the relation between the natural and social sciences. Prerequisites: 3 hrs. of philosophy or permission of instructor.

Phil 498 3 hrs. cr.
Seminar in Philosophy
 Comprehensive analysis of selected topics in philosophy. For upper division students.

Phil 499 1-3 hrs. cr.
Independent Study
 Individually directed study in selected areas for advanced students. Prerequisite: GPA of 3.0 in philosophy. Enrollment must be approved by adviser, department head and school dean.

Physics (Phys)

Phys 100 (F, S, SS) 5 hrs. cr.
Fundamentals of Physical Science
 Basic concepts in the fields of physics, chemistry, geology and astronomy will be presented as time permits. Emphasis on a detailed picture of energy and its uses, including an understanding of both mechanical and thermal efficiencies and the limitations that these efficiencies place on our world. Central to the course will be a working ability in applying some of the basic laws of nature to specific problems. Lecture and demonstration periods. Prerequisite: Qualified to take Math 110 or higher. (It is best to satisfy the math requirement before taking this course.)

Phys 101 5 hrs. cr.
Physical Science for Elementary Teachers
 Basic concepts in the field of physical science. Central to the course will be a working ability in applying some of the basic laws of nature to specific problems. Four lecture and demonstration periods, one 2-hr. lab per week. Prerequisite: Qualified to take Math 110 or higher. (It is best to satisfy the math requirement before taking this course.)

Phys 120 (Summer) 4 hrs. cr.
Physics for Teachers 7-9
 Essential subjects of physics at a level accessible with only a college algebra background. Primarily for teachers who need a physics course to satisfy the state requirement in physics for certification in science 7-9. Three hrs. lecture, one 2-hr. lab recitation class per week. Prerequisite: Math 130 or equivalent.

Phys 140 (F, S) 3 hrs. cr.
Essential Skills for Physics
 Physics preparatory class covering vector techniques, geometrical and trigonometrical applications in physics, analysis of one-dimensional motion and setting up word problems. Three hrs. lecture per week. Prerequisite: Math 140.

Phys 151 (F, S, SS) 5 hrs. cr.
Elementary College Physics I
 Mechanics, rotational dynamics, properties of matter, heat, wave motion and sound. Four hrs. lecture, one 2-hr. lab per week. Prerequisite: Math 140.

Phys 152 (S) 3 hrs. cr.
Elementary College Physics II
 Electricity, electric circuits, magnetism and optics. Two hrs. lecture, one 2-hr. lab per week. Prerequisite: Phys 151.

Phys 180 3 hrs. cr.
Introduction to Meteorology
 Fundamentals of the circulation of the atmosphere, sequence of weather events and climate. Includes interpretation of weather maps and climatic data. Three lectures per week. Prerequisite: Phys 100 or equivalent (does not count toward a physics major). Cross listed as Geol 180.

Phys 250 (F, S) 5 hrs. cr.
General Physics I
 Introductory study (with emphasis on vector methods) of the mechanics of particles and rigid bodies and a study of heat and temperature. Four hrs. lecture, one 3-hr. lab/recitation class per week. Prerequisite: Math 150 and Phys 140 or permission of instructor.

Phys 260 (F, S) 5 hrs. cr.
General Physics II
 Electricity, magnetism, waves and geometrical and physical optics. Four hrs. lecture, one 3-hr. lab/recitation class per week. Prerequisite: Phys 250 and Math 250.

Phys 298 (F, S) 1-3 hrs. cr.
Selected Topics in Physical Science
 Special topics in physical science not normally offered in other courses. Prerequisite or corequisite: Math 130 or equivalent.

Phys 300 (Demand) 3 hrs. cr.
Astronomy
 The solar system. Kepler's laws, celestial coordinates and observing. Hertzsprung-Russell diagrams, stellar evolution, pulsars, black holes, nebulae, galaxies and cosmology. Three lectures per week. (Does not count toward a physics major.) Prerequisite: Phys 100 or equivalent and one year high school algebra.

Phys 301 (F) 4 hrs. cr.
Modern Physics
 Wave motion, special theory of relativity, wave-particle experiments, introductory quantum mechanics and nuclear physics. Prerequisite: Phys 260. Corequisite: Math 260.

Phys 312 (S, SS) 3 hrs. cr.
Statics
 Principles of mechanics as applied to problems of engineering in which the structures under consideration are in static equilibrium. Three lectures per week. Prerequisite: Phys 250.

Phys 322 (S, Even) 3 hrs. cr.
Classical Mechanics
 Kinematics and dynamics of particles and systems of particles including the harmonic oscillator, potential functions, conservative fields of force, accelerated reference frames, energy, gravitation, rigid bodies and an introduction to the mechanics of continuous media. Three hrs. lecture per week. Prerequisite: Phys 250, Corequisite: Math 322 or permission of instructor.

Phys 341 (S, Odd) 4 hrs. cr.
Thermal Physics
 Temperature, transfer of heat, laws of thermodynamics, entropy, enthalpy, reversibility and irreversibility, thermal properties of materials, change of phase, use of thermo tables and introduction to heat transfer. Four hrs. lecture per week. Prerequisite: Phys 250; corequisite: Math 260.

Phys 372 (S) 4 hrs. cr.
Electronic Circuits
 Ohm's law, Kirchoff's laws, Nodal analysis, mesh analysis, Thevenin's and Norton's theorems, superposition, inductors and capacitors, source-free RL and RC circuits, RLC circuits. Complex variables and their application to steady-state AC circuits. Two 3-hr. lectures and lab per week. Presently limited to 15 students by equipment considerations. Prerequisite: Phys 260, Corequisite: Math 260.

Phys 381 (Demand) 3 hrs. cr.
Intermediate Physics Laboratory
 (Writing Intensive)
 Experiments in classical and modern physics, including wave phenomena, heat transfer, electrical measurements, optics, photoelectric effect and radioactivity. Two 3-hr. lab per week. Prerequisite: Phys 301 or permission of instructor.

Phys 401 (F, Odd) 4 hrs. cr.
Electricity and Magnetism
 Electrostatic forces, electric fields, electric potential, properties of conductors and dielectrics, magnetic fields, magnetic properties, induced electromotive force, Maxwell's equations and electromagnetic waves. Four hrs. lecture per week. Prerequisites: Math 260 and Phys 260.

Phys 452 (Demand) 3 hrs. cr.
Quantum Mechanics
 Time independent Schrodinger equation, eigenfunctions, expectation values, differential operators, perturbation theory, multielectron atoms and applications to solid state physics. Three hrs. lecture per week. Prerequisite: Phys 301 and Math 322.

Phys 480 (Demand) 3 hrs. cr.
Selected Topics in Physics and Engineering
 One or more of the following topics for further study: solid state physics, optics, nuclear physics, advanced mechanics, quantum mechanics, circuit analysis, thermodynamics, fluid mechanics heat transfer and mechanics of materials. Open to students having a minimum of 18 hrs. of physics and permission of instructor.

Phys 498 (F, S) 1-3 hrs. cr.
Seminar
 Topics of current interest by the student from the areas of physics and engineering. Secondary education majors will be required to present several lecture-demonstration programs illustrating the basic concepts in physics at the secondary level. Open to students having a minimum of 18 hrs. of physics and permission of instructor.

Phys 499 (F, S) 1-3 hrs. cr.
Independent Study
 Course structured by the adviser with approval of the department head. Prerequisite: Advanced standing with a GPA of 3.0 in the major field. Registration must be approved by the adviser, department head and school dean.

Political Science (PSc)

PSc 120 (F, S) 3 hrs. cr.
Government: U.S., State & Local
 Designed to give students an understanding of their governments, enabling them to keep up with political developments with the goal of becoming informed citizens needed to sustain democracy. A Core Curriculum requirement for all bachelor's degrees.

PSc 298 (Demand) 3 hrs. cr.
Topics in Political Science
 Special political science topics of current interest to the student or faculty member who offers the class. Subjects and instructors change each semester. Students are encouraged to suggest possible course topics to the political science faculty.

PSc 300 3 hrs. cr.
Introduction to Political Science Methods
 The nature, possibilities and limitations of political inquiry emphasizing research methods and tools. A valuable course for students who wish to engage in nonlibrary types of research projects.

PSc 301 (F, Even) 3 hrs. cr.
Political Parties and Elections
 Analysis of the origins, structure and functions of political parties; the dynamics of the two-party system; the role of third parties and the election process.

PSc 302 (F, Odd) 3 hrs. cr.
Public Opinion and Pressure Groups
 Origins, impact and measurement of public opinion. Scope, nature and powers of interest groups in American society with special attention to their role in formulating public opinion and public policy.

PSc 310 (Demand) 3 hrs. cr.
Law, Society and the Judicial Process
 (Writing Intensive)
 American legal system viewed from a social and political as well as legal perspective. Focus on the structure and organization of courts, the processing of civil and criminal cases and the behavior of judges, lawyers and other participants in the judicial process.

PSc 311 (Summer) 3 hrs. cr.
American Presidency
 Politics of presidential selection, the powers of the President, the organization of the executive branch and its relations with other organs of government.

PSc 312 (S, Even) 3 hrs. cr.
Legislative Process
 Problems of representation, organization of the legislature, participation and proposals for improved organization. Emphasis on the United States Congress.

PSc 320 (S, Odd) 3 hrs. cr.
State Government
 General structure, theories, operation and problems of state government with special emphasis on the government of Missouri.

PSc 321 (F, Even) 3 hrs. cr.
International Relations
 Present-day relations and problems among the states of the world and the major factors which underline and influence these relations.

PSc 322 (S, Odd) 3 hrs. cr.
International Law
 Rules and principles accepted by the members of the community of nations as defining their rights and duties and the procedures employed in protecting their rights and performing their duties.

PSc 331 (F, Odd) 3 hrs. cr.
Comparative Government: Europe
 An analysis of the governments of selected European countries emphasizing the development of their political systems both in theory and practice. Comparisons with American governmental institutions.

PSc 332 (S, Even) 3 hrs. cr.
Comparative Government: Latin America
 Governments and cultures of selected Latin American countries emphasizing the development of their political systems in both theory and practice.

PSc 341 (S, Even) 3 hrs. cr.
Municipal Government
 Structure, legal status, functions and organization of city, town and village government in the United States.

PSc 342 (F, Even) 3 hrs. cr.
Public Policy
 An introductory survey of the formulation, execution and evaluation of public policy in the United States. Prerequisite: PSc 120.

PSc 411 (F, Odd) 3 hrs. cr.
Political Theory Selected
 Western political philosophies from early recorded history through the present time.

PSc 412 (S, Even) 3 hrs. cr.
Contemporary Political Thought
 Twentieth century political ideas.

PSc 421 (F, Odd) 3 hrs. cr.
Public Administration
 Administrative aspects of government; surveys the major subfields of public administration, i.e., politics and administration, organizational theory, organizational behavior, management, decision making, personnel, public budgeting and finance, policy analysis and program evaluation and administrative law. Prerequisite: Junior standing or consent of instructor.

PSc 431 (F, Even) 3 hrs. cr.
Constitutional Law I
 Political and legal aspects of Supreme Court decision making, the nature and scope of judicial review, the constitutional relationships between levels and branches of government and the First Amendment rights of freedom of expression.

PSc 432 (S, Odd) 3 hrs. cr.
Constitutional Law II
 Legal issues concerning the Bill of Rights and the First Amendment areas of free exercise and establishment of religion, the right to privacy, the 14th amendment due process, and equal protection clauses.

PSc 496 (Demand) 3-8 hrs. cr.
Internship in Political Science
 Observation of and participation in governmental work under the direct supervision of a faculty member and a professional who is employed in the governmental position being observed. No more than 3 hrs. may be counted toward a major or minor.

PSc 497 (Demand) 8 hrs. cr.
Capital Internship
 Observation of and participation in governmental work under the direct supervision of a faculty member and a professional who is employed in the governmental position being observed. The student will live and work in the capital from the opening of the legislative session until its conclusion or the last day of MSSC's spring semester.

PSc 498 (Demand) 3 hrs. cr.
Seminar in Political Science (Writing Intensive)
 Specialized knowledge and/or current research in the discipline. Topics will vary by situation and instructor. Students will prepare and critique papers based on original research. Prerequisite: 9 hrs. of upper division political science.

PSc 499 (F, S) 1-2-3-4 hrs. cr.
Independent Study
 For students who wish to do an indepth study of some specialized topic or who wish to pursue a topic not considered in the department's course offerings. The student will select an adviser from the political science faculty who will structure the independent study in consultation with the student and with the approval of the department head. Prerequisite: Junior or senior status and an overall cumulative GPA of 3.0 or better. Enrollment must be approved by department head and school dean.

Sociology (Soc)

Soc 110 (F, S) 3 hrs. cr.
Introduction to Sociology

A systematic study of society. Emphasis on major concepts of sociology and the scientific point of view in dealing with social phenomena. Satisfies a Core Curriculum requirement.

Soc 155 (F) 3 hrs. cr.
Physical Anthropology and Archaeology

Physical and cultural anthropology with particular emphasis on the linkage of human prehistory to the development of culture and the human capacity for society. Can be used to satisfy the Core Curriculum requirement in Area 5.

Soc 210 (F, S) 3 hrs. cr.
Social Problems

Causes and consequences of economic, political and social problems that significantly affect society and the quality of life in it. Emphasis on elements and processes within the structure of American society rather than on individual pathologies and behaviors as causes of social problems. Some analysis of possible solutions is also included. Prerequisite: Soc 110.

Soc 221 (F) 3 hrs. cr.
Marriage and Family

Paired relationships, marriage as the genesis of family life, elements in the preparation for marriage and parenthood and the development of family relationships throughout the life cycle.

Soc 291 (F) 3 hrs. cr.
The Sociology of Death and Dying

A review of the international religious, secular and scientific expressions regarding death. Historical and current issues pertaining to death are explored and a critical perspective is taken on all positions. The course incorporates both philosophical and pragmatic overviews of death and dying.

Soc 298 (Demand) 3 hrs. cr.
Topics in Sociology

Special sociology topics of current interest. Subjects and instructors may vary each semester. Students are encouraged to submit areas of interest to the social science department.

Soc 300 (S) 3 hrs. cr.
Computer Applications in the Social Sciences

An analysis of computers and their applications in the social sciences. Focus on preexisting software designed for use by social science disciplines. Emphasis on data entry, analysis and interpretation of printouts. Prerequisite: Comp 105 and Psy 320. Advised to be taken with Soc 432.

Soc 301 (F) 3 hrs. cr.
Sociology of Religion

Religion as a major social institution. Compares religions regarding behavioral content. Major attention is given to the nature of religion, organized religion and how religion is integrated into society. Limited attention given to the behavioral expectations associated with the major religions of the world. Prerequisite: Soc 110.

Soc 303 (F) 3 hrs. cr.
The Arab World

A social science view of the Arab world which identifies peoples, countries, geographical settings, cultural differences, cultural change, political and religious affiliations, and the emergence of contemporary issues. Special emphasis will be placed upon the Israel - Palestine - Jordan problem area.

Soc 306 (S) 3 hrs. cr.
Sociology of Aging

A review of aging studies with particular emphasis on needs, problems, areas of concern, aging theories, social services for the elderly and accumulated data from gerontological research. Such topics as life changes, retirement and alternative life styles among the elderly will be analyzed. Prerequisite: Soc 110.

Soc 309 (F) 3 hrs. cr.
Multi-Cultural Aging

An analysis of older people in different cultures and how the normative structure of each culture creates variation within the aged. Roles the elderly play in day-to-day life and how their positions influence intergenerational relationships will be examined. Emphasis will be placed on cultural groups within the United States and select groups in other countries. Prerequisite: Soc 110.

Soc 311 (F) 3 hrs. cr.
Social Stratification (Writing Intensive)

Examination of differences in power, privilege and prestige. Analysis of the nature and input of social inequality on people's lives within the United States and an overview of the complex array of social structures which comprise international systems of inequality. Theoretical explanation for the variations in social class usually incorporated in course requirements. Prerequisite: Soc 110.

Soc 312 (S) 3 hrs. cr.
Juvenile Delinquency

Analysis of environment and social background for juvenile delinquency behaviors. Investigation of behavioral content and scope of official delinquency. Review of the influences of family, school, peer groups and gangs, and the juvenile justice and corrections system. Prerequisite: Soc 110.

Soc 322 (S) 3 hrs. cr.
Sociology of Work and Leisure

Analysis of work, occupations, career mobility and job satisfaction as important elements in society. Examination of leisure activities which alter with technological advances and the changing economic base. Prerequisite: Soc 110.

Soc 331 (F) 3 hrs. cr.
Introduction to Social Work

Philosophical and historical development of social work as a professional career. Focuses on role of the social worker within the various practice settings. Will entail field trips and guest speakers.

Soc 332 (S) 3 hrs. cr.
Social Work Practice

Emphasizes the development of skills needed to initiate, enhance, or restore relationships between clients and society. Focuses on techniques and case management, analysis of cases and practical experience in a social agency or community program providing human services. Admission dependent on departmental committee approval. Prerequisite: Soc 331 and junior standing.

Soc 341 (F) 3 hrs. cr.
Social Psychology
 (See Psy 341)

Soc 342 (S) 3 hrs. cr.
Comparative Cultures

A comparative study of human society and culture, focusing on theories of culture and cultural institutions as they relate to contemporary preindustrial peoples. An ethnographic examination of representative groups is provided for purposes of cross-cultural comparison. Can be used to satisfy the Core Curriculum requirement in Area 5. Prerequisite: Soc 110 or 155 or consent of instructor.

Soc 351 (F) 3 hrs. cr.
Criminology

Social and legal concept of crime. Review of measurements and data of crime(s) and the theories related to the cause of criminal behaviors. Discussion of profiles of different adult offenders and their behavioral characteristics relative to the major felonies committed in contemporary society. Prerequisite: Soc 110.

Soc 354 (S) 3 hrs. cr.
Sociology of Medicine

A review of certain sociological data which affect people's health status, health care and health outlook. Focus on aging, social stratification, demographics and economic issues relevant to health status. A review of the history, change and cross cultural comparisons of health care. Prerequisite: Soc 110.

Soc 361 (F) 3 hrs. cr.
The Study of Populations

Changes in human population through an analysis of birth rates, death rates and migrations. Social demographic analysis of census and independent research data. Various population theories are applied to national and world situations. Concepts of over-population, minority groups and aging are analyzed. Prerequisite: Soc 110.

Soc 362 (S) 3 hrs. cr.
Deviant Behavior

Theoretical explanations of socially disapproved behavior from the sociological perspective and the application of these concepts to specific forms of deviance. Analysis of the social nature of conforming behavior as a way of increasing understanding of deviant behavior. Prerequisite: Soc 110 and Soc 210 (or) consent of instructor.

Soc 382 (S) 3 hrs. cr.

Minority Groups and Race Relations

A study of racial and cultural groups particularly focusing on the United States with some analysis of international ethnic relations. Analyzes several general theories and explanations for minority-dominant relations. Includes a study of legislation affecting minorities in the U.S. Prerequisite: Soc 110 or consent of instructor.

Soc 391 (F) 3 hrs. cr.

Penology and Corrections

Philosophy, history and operations of penitentiary systems with special attention given to changes in adult institutions. Explanation of the problems associated with prison populations and types of facilities along with sentences, therapeutic models and community treatment. Prerequisite: Soc 110.

Soc 402 (S) 3 hrs. cr.

The Community - Rural and Urban (Writing Intensive)

Social processes of human groups who share common unities of territory and cultural bonds. Major attention on gemeinschaft-gesellschaft theories as they pertain to national, rural, urban, ethnic and subcultural communities, and how these intertwine in contemporary societies. Prerequisite: Soc 110.

Soc 431 (F) 3 hrs. cr.

Sociological Research Methods

Methods of problem and hypotheses formulation and data collection, including interviewing and instrumentation. Focus on the analysis of research findings and ethical procedures. Emphasizes survey designs employed in sociological inquiry. Prerequisite: 12 hrs. of sociology.

Soc 445 (Demand) 3 hrs. cr.

Mass Society and Social Movements

Critical analysis of the structural elements of contemporary mass society and their effect on social groups and individuals. The function of social movements as forms of resistance and change in modern society. Prerequisite: 9 hrs. of sociology or consent of instructor.

Soc 482 (S) 3 hrs. cr.

Sociological Theory

Classical and contemporary theory placed in historical perspective. An analysis and interpretation of social groups, social organizations and social systems through the study of social thought from Auguste Comte to theorists in the modern period. Prerequisite: 9 hrs. of sociology.

Soc 496 (Demand) 1-8 hrs. cr.

Internship in Sociology

Observation of and participation in various social service agencies in the community. All internships must conform with institutional policy regarding the number of hours per credit and contractual agreements with cooperating agency personnel. No more than three hours may be counted toward a major or minor. Prerequisites: 15 hrs. of sociology, junior standing or above and approval of a departmental committee

Soc 498 (Demand) 3 hrs. cr.

Seminar in Sociology

For upper division sociology majors. Topics covered and methods used will place emphasis on student-instructor interest, desire to pursue indepth research and ability to assimilate topics. It will include areas not already treated in other sociology courses. Prerequisite: 15 hrs. of sociology or consent of instructor.

Soc 499 (Demand) 1-2-3 hrs. cr.

Independent Study

Structured by the adviser with the approval of the department head and school dean. Prerequisite: Advanced standing in the major field with a GPA of 3.0. Enrollment in the course must be approved by department head and dean.

Theatre (Th)

Th 101,102,201,202,301,302,401,402 (F, S, S) 1 hr. cr.

Theatre Performance

The performance of a role, service as a designer or stage manager which has met departmental standards on a major production. A student may accumulate up to 8 hours of credit. Credit is applied for after production closes. Credit applies only to accumulative graduation hours.

Th 110 (F, S, S) 3 hrs. cr.

Theatre Appreciation

Introduction to the what, why, how and who of theatre. Sessions deal with dramatic form, style and structure; the contributions of various theatre artists; and interpretation and evaluation of plays through scripts and live and taped performances. Provides knowledge and experience for personal enjoyment and evaluation of theatre art. Satisfies 3 semester hours of Core Curriculum requirement in humanities and fine arts, Area 2A or 2C.

Th 121,122,221,222,321,322 (F, S) 2 hrs. cr.

Theatre Laboratory

A laboratory devoted to mounting the theatre's season. Meets two hrs. in sequence twice a week.

Th 142 (S, Even) 3 hrs. cr.

Theatre Technology

Hardware and tool usage and technical drawing as applied to theatre. The use of electricity, sound and electronics in the theatre. Stage rigging.

Th 212 (F, Odd) 3 hrs. cr.

Oral Interpretation

Principles and techniques for the public presentation of oral reading. Selection, analysis and preparation of different types of literature with emphasis on platform presentation of prose, poetry, drama and Readers Theatre.

Th 231 (F, Odd) 3 hrs. cr.

Speech for Stage

Exercises and drills to improve projection, quality, flexibility and effectiveness of the speaking voice leading to good usage in Standard American speech, based on the International Phonetic Alphabet.

Th 232 (S, Odd) 3 hrs. cr.

Costume Technology

Basic techniques for construction of stage costumes from a designer's sketch. Areas covered are: fabrics, pattern development, cutting, sewing, dyeing and crafts. No previous skills required. Two hours lecture, 2-hrs. lab per week.

Th 233 (F, Odd) 3 hrs. cr.

Stage Makeup

Examination of the usages of stage makeup techniques in design and application. Detailed categories of professional makeup materials, usage techniques, sources and costs of material, and demonstrations of various methods of design and application. Each unit of lecture and demonstration will be accompanied by student individual and group study with projects presented in class for critical review. Students must provide individual makeup supplies.

Th 241 (S, Even) 3 hrs. cr.

Acting I

Development of individual's ability to express thought and emotion through effective use of the voice and body. Character analysis and creation revealed in exercises and scene work.

Th 242 (Demand) 1 hr. cr.

Theatre Movement I

Historical development and implementation of theatrical movement. Exercises and assignments focus on the enhancement of nonverbal character interpretation through individual study and in-class application of movement, gestures and postures, including an assimilation of cultural influences, pantomime, masque and improvisation. Two 1 hr. labs per week.

Th 250 (Demand) 1-6 hrs. cr.

Summer Theatre Production

Students serve as cast and crew members for a summer production. Practical theatre experience in acting, design and construction of all areas, plus theatre management.

Th 251 (S, Odd) 1 hr. cr.

Audition

Techniques for the actor techniques of auditioning and interviewing in the theatre: selecting audition pieces, rehearsing and performing auditions. Instruction in preparing resumes and photographs for professions.

Th 298 (Demand) 3 hrs. cr.

Exploration in Theatre

Concentrated study on a variety of selected theatre topics. Each offering on a different subject. May be repeated, but same topic only once.

100 / Courses • Theatre

Th 311 (F, Even) Stage Management Fundamentals of stage management. Organization of call board, rehearsals and performances. Communication procedures between actors, director and designers. Calling the show. Prerequisite: Th 142.	3 hrs. cr.	Th 351 (F, Even) Directing I A comprehensive study of various problems confronting a stage director. Techniques and procedures for play selection, analysis and mounting a production. Scene directing. Prerequisite: Th 241.	3 hrs. cr.	Th 431 (F, Odd) Creative Dramatics Methods and techniques of teaching dramatic improvisations for young people through the exploration of various art forms appropriate for dramatic presentation with an emphasis on storytelling.	3 hrs. cr.
Th 320 (Demand) Stage Lighting Lighting design approached artistically. The use of lighting for atmosphere, mood and emphasis. Lighting as applied to art, television, theatre and motion pictures. Prerequisite: Th 142.	3 hrs. cr.	Th 361 (F, Odd) History of Costume Survey of the garments and fabrics worn in Western cultures from Ancient Greece through the 19th Century. Emphasis is on the social and economic reasons which caused styles to change. (Recommended as prerequisite for Stage Costume Design.)	3 hrs. cr.	Th 441 (F, Odd) Stage Design Foundations of design. Sketching, rendering and perspective techniques. Communications between designers and directors. Prerequisite: Th 142.	3 hrs. cr.
Th 331 (F, Even) History of the Theatre (Writing Intensive) Theatre from primitive time through the Elizabethan period. Theatre and stage architecture, scene design, acting styles, theatre management and the culture surrounding the theatrical event. Analysis of their relationship to dramatic literature.	3 hrs. cr.	Th 362 (S, Even) Stage Costume and Design Theory and practical aspects of costume design. Emphasis on non-verbal communication of theme, character and historical period through rendered costume designs. Recommended prerequisite is History of Costume.	3 hrs. cr.	Th 450 (F, S) Advanced Lab Practicum Advanced practical implementation of techniques learned at beginning and intermediate levels of theatre production in the areas of directing and design. Play production for public performance.	1-3 hrs. cr.
Th 332 (S, Odd) History of the Theatre Plays, playwrights and dramatic criticism from the Elizabethan and Jacobean era to contemporary theatre and the evolution of the physical theatre, staging and production practices.	3 hrs. cr.	Th 372 (S, Odd) Directing II Study of the skills and role of a director, casting, production administration and director-actor relationship. Experience and group evaluation in directing one-act plays before departmental or public audience. Prerequisite: Th 351.	3 hrs. cr.	Th 498 (Demand) Theatre Studies Seminar in theatre for advanced students. Topic open. Approval of department head. Prerequisite: Advanced standing in major field with a GPA of 3.0. Enrollment must be approved by adviser, department head and school dean.	3 hrs. cr.
Th 333 (Demand) Eastern Theatre Tradition The study of Eastern thought and culture in the discipline of theatre. All areas of design as well as acting and movement will be discussed.	3 hrs. cr.	Th 422 (S, Odd) Acting III Lecture and laboratory study of physical manners and speech in relationship to various periods of theatre presentation. Prerequisite: Th 341.	3 hrs. cr.	Th 499 (F, S) Independent Study in Theatre Structured by the adviser with approval of department head. Prerequisite: Advanced standing in major field with GPA of 3.0. Enrollment must be approved by adviser, department head and school dean.	1-3 hrs. cr.
Th 341 (F, Even) Acting II The dynamics of analysis, rehearsal and performance of scenes from contemporary and classic plays. Emphasis on the actor's relationship to the play and to other actors. Prerequisite: Th 241.	3 hrs. cr.				

An aerial, black and white photograph of a winding river or stream cutting through a dense, dark forest. The river's path is light-colored, creating a stark contrast with the surrounding trees. The left edge of the image shows a series of dark, rectangular shapes, possibly representing a binding or a series of small trees along a shore.

School of Business Administration

Accounting

Business Education

Economics & Finance

Entrepreneurship

General Business

Management

Marketing

Marketing Technology

School of Business Administration

School Dean

James M. Gray
Matthews Hall 302, 625-9319

Degrees and Majors

Bachelor of Science in Business Administration

Accounting
Economics and Finance
General Business
Management
Management Technology
Marketing

Bachelor of Science in Education

Business Education as a single teaching field
Business Education as one of two teaching fields

Bachelor of Science

Management Technology

Associate of Science

Accounting
General Business

Concentration

Entrepreneurship

Role

The aim of all activity in the School of Business Administration is to assist students in the development of those intellectual, personal and professional attributes which will prepare them to exercise responsibility in the complex business environment of the future. The faculty of the School of Business Administration recognizes that the pace of change in our society will quickly render vocationally oriented information and training obsolete and that the routine details and techniques of the world of work must be acquired through actual experience. The role of the School of Business Administration, therefore, is not to teach skill specific techniques or to offer training for the first job, but to provide the educational opportunity to allow students to develop familiarity with analysis, communications, leadership and interpersonal relations within the context of professional education for business administration.

Objectives

The objectives of the School of Business Administration are:

1. to maintain a relevant curriculum which will provide the necessary managerial and administrative education for the School of Business Administration graduates;

2. to prepare the School of Business Administration graduates for leadership roles by stimulating rigorous, imaginative, analytical and probing attitudes so that the graduates can express themselves competently and apply problem-solving techniques;
3. to provide a faculty committed to teaching excellence, community service and research;
4. to maintain facilities and equipment necessary to foster high quality education in the School of Business Administration;
5. to interact with the business community to identify and serve their educational needs and to provide opportunity for professional growth for our students and faculty.

Student Organizations

The Accounting Club is open to accounting students seeking information regarding the profession and association with practicing accountants. Members may attend monthly technical meetings and social functions. Members are also encouraged to become active in one or more of the area's professional accounting organizations.

Omicron Delta Epsilon is the honorary economics fraternity open to juniors with a 3.0 overall grade point average and at least 9 hours in economics, with a 3.0 in the economics courses. The Phi Beta Lambda is based on a set of goals which includes the development of competent and aggressive business leadership, creation of more interest and understanding of American business enterprise and participation in worthy undertakings for the improvement of business and citizenship. PBL is open to all business and computer science students and serves as a vehicle for professionals.

Students in Free Enterprise (SIFE) is a non-profit corporation organized to promote the free enterprise system. The group has participated in national competitions, finishing as high as second on two different occasions.

Financial Management Association is open to all economics and finance majors and has a National Honor Society designation for those economics and finance majors who have a cumulative GPA of 3.25 and at least six hours in finance.

The Society of Human Resource Management is based on a set of goals which includes familiarizing students with personnel administration, industrial psychology and

labor relations. It is also designed to keep students up to date on new developments in the field of personnel, and to develop a nucleus of truly professional personnel administrators for the future. The group is co-sponsored by the School of Business and department of psychology and networks with professionals on a monthly basis.

Small Business Development Center

The School of Business Administration, in conjunction with the Small Business Administration, has formed a Small Business Development Center which encompasses the following areas:

The Total Quality Management Resource Center

The Total Quality Management Resource Center assists area organizations in their quest for continuous improvements of products, processes and services to enhance quality while reducing cost. This objective is met through assessment activities, research, educational programs, consulting, and serving as a clearing house for materials such as books, literature, tapes and equipment.

The Southern Business and Economic Review

The Southern Business and Economic Review is published quarterly by the Bureau of Business and Economic Research within the School of Business Administration. Each issue contains local economic indicators and articles of interest to local business people. The Bureau also maintains a data bank of economic statistics which is available to local business people.

Small Business Institute

The Small Business Institute allows students to consult with small businesses that request assistance. This provides valuable experience for our senior students. They are able to apply some of the theory they have learned to "real life" situations. The Small Business Administration funds the program and there is no charge to the businesses.

Business and Economic Lecture Series

The School of Business Administration sponsors an annual lecture series. Speakers of interest to both students and local business people appear each semester. Normally they speak both during the day and the evening. J. Peter Grace and William S. Rukeyser are two of the prominent speakers who have appeared in the series.

Management Development Institute

The School of Business Administration has established a Management Development Institute to help local businesses with their training and educational needs. The Center seeks to serve those needs by developing and/or coordinating various seminars for the local businesses.

Center for Entrepreneurship

The primary purpose of the Center for Entrepreneurship is to provide relevant and practical information concerning starting and running a small business. The Center also seeks to encourage new business start-ups by providing student consultants and faculty evaluation of business plans.

Business Core Requirements

All B.S.B.A. candidates must take the following "core" courses in addition to the courses required in their major:

Business Administration**Core Requirements**

	Semester Hours
Acct 201 Prin of Accounting I	3
Acct 202 Prin of Accounting II	3
Econ 201 Prin of Economics-Macro	3
Econ 202 Prin of Economics-Micro	3
Econ 350 Financial Management I	3
GB 301 Legal Environment of Business I	3
GB 320 Business Comm	3
GB 321 Business Statistics I	3
MM 300 Prin of Marketing	3
MM 350 Prin of Management	3
MM 237 Managerial Data Proc	3
MM 452 Strategic Mgmt	3
Advanced Business Elective*	3
Total Business Core	39

*Must be selected in consultation with adviser from 300 or 400 level courses in School of Business Administration. May not be "double counted" as part of major requirements. Mathematics - All candidates for the B.S.B.A. degree must complete Mathematics 131, Finite Mathematics, as their Core Curriculum mathematics course.

Minor in Business:

	Semester Hours
Acct 201 Prin of Accounting I	3
Acct 202 Prin of Accounting II	3
Econ 202 Prin of Economics-Micro*	3
Econ 350 Financial Management	3
MM 237 Managerial Data Processing	3
MM 300 Prin of Marketing	3
MM 350 Prin of Management	3
Total for Minor	21

*Econ 201 should be taken as a Core Curriculum requirement.

Accounting

Matthews Hall 302, 625-9319

Faculty Cunningham, Finke, Goode, Paapanen, Roark, Shaver

The emphasis in accounting leads to the B.S.B.A. degree. A concentration in accounting is also available within the A.S. degree.

The B.S.B.A. degree with the accounting major is designed to prepare the student to enter any area of the accounting profession, successfully complete the Certified Public Accountant or other professional certification examination and to enter graduate school.

Prospective accounting majors should take note of new requirements for entry into the profession. Beginning in the year 2000, the American Institute of Certified Public Accountants will require new members to have 150 semester hours of college credit including an undergraduate degree. In addition, more than 20 states now require 150 hours in order to be permitted to sit for the C.P.A. examination (including Arkansas and Kansas). As of the Fall of 1992, Missouri had not passed the 150-hour law. However, bills are before the Legislature and passage in the near future is considered highly likely. Accounting majors desiring to meet this requirement should note the "150-hour" recommended courses at the end of the B.S.B.A. suggested order of study or plan to attend graduate school.

The A.S. accounting program of study is designed to prepare the student for book-keeping tasks which are a part of the accounting function. Graduates of this program usually serve at the first level in accounting firms or private businesses.

Associate of Science with a Concentration in Accounting

	Semester Hours
Core Requirements (p.36)	25-26
Accounting Concentration	39
Acct 201 Prin of Accounting I	3
Acct 202 Prin of Accounting II	3
Acct 312 Intermediate Accounting I	3
Acct 322 Intermediate Accounting II	3
Acct 375 Tax Accounting I	3
GB 301 Legal Environment of Business I	3
GB 320 Business Communications (WI)	3
Econ 201 Prin of Economics-Macro	3

Econ 202 Prin of Economics-Micro	3
MM 237 Managerial Data Processing	3
MM 350 Prin of Management (WI)	3
Elective selected from:	3
Acct 325 Managerial Accounting	
GB 302 Legal Environment of Business II	
GB 321 Business Statistics I	
Business Elective	3
Total	64-65

Bachelor of Science in Business Administration with an Emphasis in Accounting

	Semester Hours
Core Requirements (p. 35)	51
Business Core Requirements	39
Additional Business Core Requirements (Accounting majors only)	9
GB 322 Business Statistics II	3
Math 302 Calculus for Mgmt & Social Sciences	3
MM 431 Operations Management	3
Accounting Major	24
Acct 310 Cost Accounting	3
Acct 312 Intermediate Accounting I	3
Acct 322 Intermediate Accounting II	3
Acct 332 Intermediate Accounting III	3
Acct 375 Tax Accounting I	3
Acct 402 Advanced Accounting	3
Acct 411 Auditing	3
Upper-level Accounting Elective (must be chosen with adviser approval)	3
Electives	5
	128

Suggested Order of Study**Bachelor of Science in Business Administration**

Major Code 0502

Accounting Emphasis**Freshman Year**

1st Semester	Course	Hours
CORE	[Eng 101 Comp I]	3
CORE	[Math 131 Finite Math]	3
CORE	[PSc 120 Gov't U.S./Sta/Loc]	3
CORE	[Bio 101 General Biology]	4
CORE	[HPER 103 Lifetm Wellness]	2
Psy 120	College Orientation	1
		16

2nd Semester

CORE	[Eng 102 Comp II]	3
CORE	[Psy 100 Fund of Phys Sci]	5
CORE	[Comm 100 or 103 Comm]	3
CORE	[Psy 100 or Soc 110]	3
CORE	[HPER 101 Physical Activity]	1
		15

104 / Business Education

Sophomore Year

1st Semester		
Acct 201	Prin of Accounting I	3
CORE	[Econ 201 Econ-Macro]	3
MM 237	Managerial Data Processing	3
CORE	[Fine Arts (Art 110, Mus 110 or Th 110)]	3
CORE	[Hist 110 American History]	3
		15

2nd Semester

Acct 202	Prin of Accounting II	3
Econ 202	Prin of Econ-Micro	3
CORE	[Literature (Eng 261, 262, 271, 272, 281 or 282)]	3
Math 302	Calc for Mgmt & Soc Sci	3
CORE	[Hist 120 American History]	3
		15

Junior Year

1st Semester		
Acct 312	Intermediate Accounting I	3
Acct 375	Tax Accounting I	3
GB 301	Legal Envir of Bus I	3
GB 321	Business Statistics I	3
MM 300	Prin of Marketing	3
		15

2nd Semester

Acct 310	Cost Accounting	3
Acct 322	Intermediate Accounting II	3
GB 320	Business Comm (WI)	3
GB 322	Business Statistics II	3
MM 350	Prin of Management (WI)	3
		15

Senior Year

1st Semester		
Acct 332	Intermediate Accounting III	3
Acct 411	Auditing	3
Econ 350	Financial Management	3
CORE	[International Cultural Studies - GB 310 Intern'l Bus strongly recommended]	3
CORE	[Humanities & Fine Arts Elective] (See Core Requirements, page 35)	3
Upper-level Business Elective (MM 337 Mgmt Infor Systems strongly recommended)		3
		18

2nd Semester

Acct 402	Advanced Accounting	3
Upper-level Accounting Elective (Must be selected with adviser approval. Internships, independent studies and VITA will not fulfill this requirement.)		3
MM 431	Operations Management	3
MM 452	Strategic Management (WI)	3
Electives		5
		17
Total for B.S.B.A. degree		128

150-Hour Track

First Semester		
Course	Hours	
Acct 408 Tax Accounting II		3
Acct 431 Advanced Auditing		3
GB 420 Advanced Bus Comm		3
Econ 401 Microeconomic Analysis		3
		12

2nd Semester

Acct 440	Profes & Ethics in Acct	3
Acct 499	Independent Study in Acct (to be arranged with adviser)	1
GB 302	Legal Envir of Bus II	3
Select one:		
Acct 418	Tax Accounting III	
Acct 420	Accounting Theory	
Acct 422	Advanced Cost Accounting	3
		10

Associate of Science

Major Code 5002

Accounting Concentration

Freshman Year

1st Semester		
Acct 201	Prin of Accounting I	3
CORE	[Eng 101 Comp I]	3
CORE	[PSc 120 or Hist 110]	3
CORE	[Math 30 or higher]	3
CORE	[HPER 103 Lifetm Wellness]	
Business Elective		3
		17

2nd Semester

Acct 202	Prin of Accounting II	3
CORE	[Psy 100 or Soc 110]	3
CORE	[Comm 100 Oral Comm]	3
CORE	[Art 110, Mus 110, Th 110, Literature or Phil 201]	3
GB 320	Business Comm (WI)	3
CORE	[HPER 101 Physical Activity]	1
		16

Sophomore Year

1st Semester		
Acct 312	Intermediate Accounting I	3
MM 237	Managerial Data Processing	3
GB 301	Legal Environment of Bus I	3
CORE	[Bio 110 or Phys 100]	4-5
CORE	[Econ 201 Econ-Macro]	3
		16-17

2nd Semester

Acct 322	Intermediate Acct II	3
Acct 375	Tax Accounting I	3
Econ 202	Prin of Econ-Micro	3
MM 350	Prin of Management (WI)	3
Business Elective (Acct 325, GB 302, GB 321)		3
		15

[Department Recommendation]

For additional information contact:
Dean of the School of Business
Office: Matthews Hall 302
Phone: 625-9319

Business Education

Matthews Hall 302, 625-9319

Faculty Block, Rusley

Bachelor of Science in Education (Business Major)

The B.S.E. business major course of study prepares graduates to teach business as either a single or dual field at the secondary level.

Bachelor of Science in Education with Business as a Single Teaching Field (Plan B)

		Semester Hours
Core Requirements (p. 35)		51
Education courses (p.115-127)		36
Business Major		42
Acct 201	Prin of Accounting I	3
Acct 202	Prin of Accounting II	3
Accounting - Select one:		3
Acct 312	Intermediate Accounting I	
Acct 325	Managerial Accounting	
Acct 375	Tax Accounting	
GB 110	Type/Format*	3
GB 112	Type/Elec Doc Prod*	3
GB 301	Legal Environment	
	of Business I	3
GB 312	Prin of Business Educ	3
GB 320	Business Comm (WI)	3
Econ 201	Prin of Economics-Macro	3
Econ 202	Prin of Economics-Micro	3
MM 237	Managerial Data	
	Processing	3
MM 300	Prin of Marketing	3
MM 337	Management Information	
	Systems	3
MM 350	Prin of Management (WI)	3
		129

*Students having proficiency in typewriting may ask to be tested. If advanced standing is granted in the subject, the student will substitute another course in order to meet the 42 hour requirement.

Bachelor of Science in Education with Business as One of Two Teaching Fields (Plan A)

	Semester Hours
Core Curriculum (p.35)	51
Education courses (p. 115-127)	36
Business Major	30
Acct 201 Prin of Accounting I	3
Acct 202 Prin of Accounting II	3
Accounting - Select one:	3
Acct 312 Intermediate Accounting I	3
Acct 325 Managerial Accounting	3
Acct 375 Tax Accounting	3
GB 110 Type/Formatting*	3
GB 112 Type/Elec Doc Prod*	3
GB 301 Legal Environment of Business I	3
GB 320 Business Comm (WI)	3
Econ 201 Prin of Economics-Macro	3
MM 237 Managerial Data Processing	3
MM 337 Management Information System	3

*Students having proficiency in typewriting may ask to be tested.

If advanced standing is granted in the subject, the student will substitute another course to meet the 30 hour requirement.

Suggested Order of Study

Bachelor of Science Major Code 0838 Plan B-Single Teaching Field Business Education

Freshman Year

Course	Hours
CORE [Eng 101 Comp I]	3
CORE [Hist 110 U.S. History]	3
CORE [Art 110, Mus 110 or Th 110]	3
CORE [Psy 100 Gen Psychology]	3
Educ 100 Orient to Educ I	1
CORE [HPER 103 Lifetm Wellness]	2
Psy 120 College Orientation	1
	16

2nd Semester

CORE [Eng 102 Comp II]	3
CORE [PSc 120 Gov't: U.S./Sta/Loc]	3
CORE [Hist 120 or 320]	3
CORE [Math 131 Finite Math]	3
GB 110 Type/Format (GB 105)	3
Psy 302 Exceptional Child	2
	17

Sophomore Year

1st Semester		
CORE	[Econ 201 Econ-Macro]	3
Acct 201	Prin of Acct I (Math 131)	3
CORE	[Bio 101 General Biology]	4
Educ 200	Orient to Educ II	1
CORE	[Literature (Eng 261, 262, 271, 272, 281, 282)]	3
CORE	[HPER 101 Physical Activity]	1
Psy 310	Educational Psychology	2
		17

2nd Semester

Acct 202	Prin of Acct II (Acct 201)	3
Econ 202	Prin of Economics-Micro	3
MM 237	Managerial Data Processing	3
CORE	[Phys 100]	5
CORE	[Comm 100 or 103]	3
		17

Junior Year

1st Semester		
Acct 312	Intermediate Accounting I	
OR		
Acct 325	Managerial Accounting	
OR		
Acct 375	Tax Accounting (Acct 202)	3
GB 301	Legal Environment of Bus I	3
Educ 321	Microteaching, Secondary	2
Educ 329	Ped Theo, Methods & Prac	4
Educ 423	Classroom Management	2
Psy 301	Adolescent Psychology	3
		17

2nd Semester

CORE	[Humanities and Fine Arts]	3
GB 112	Typ/Elec Doc Prod (GB 110)	3
GB 320	Bus Comm (WI) (Eng 102)	3
MM 300	Prin of Marketing (Econ 202)	3
Educ 422	Reading Secondary	2
		14

Senior Year

1st Semester		
CORE	[International Cultural Stu]	3
GB 312	Prin of Business Educ	3
MM 337	Management Info System	3
MM 350	Prin of Management (WI)	3
		12

2nd Semester

Professional Semester		
Educ 336	Tchgng Business, Secondary	2
Educ 402	Foundation of Educ	2
Educ 432	Critical Issues in Educ	2
Educ 462	Student Tchgng Secondary	8
Psy 412	Measurement & Evaluation	2
		16

[Department Recommendations]
(Prerequisites)

For additional information contact:

Mr. Jim Gray
Office: Matthews Hall 302
Phone: 625-9319

Economics and Finance

Matthews Hall 302, 625-9319

Faculty Bradshaw, R. C. Brown, Eberhardt, Jaswal, La Near, Larson, Leitle, Marion, Miller, Rawlins

The B.S.B.A. economics and finance major course of study is designed to prepare graduates for managerial positions in financial institutions, corporate research, forecasting, government and other public and private sector positions, as well as for graduate study.

Bachelor of Science in Business Administration with an Emphasis in Economics and Finance

	Semester Hours
Core Requirements (p.35)	51
Business Core	39
Economics and Finance Emphasis	18
Econ 300 Money and Banking	3
Econ 411 Investments	3
Two of the three following:	6
Econ 401 Microeconomic Analysis	
Econ 402 Macroeconomic Analysis	
Econ 450 Financial Management II	
Advanced Econ/Fin Electives (selected in consultation with adviser from Econ/Fin courses numbered 300 or above)	6
Electives	20
	128

Suggested Order of Study

Bachelor of Science in Business Administration Major Code 0504 Economics and Finance Emphasis

Freshman Year

1st Semester		Hours
Course		
CORE	[Eng 101 Comp 1]	3
CORE	[Math 131 Finite Math]	3
CORE	[PSc 120 Gov't: U.S./Sta/Loc]	3
CORE	[Bio 101 General Biology]	4
CORE	[HPER 103 Lifetm Wellness]	2
Psy 120	College Orientation	1
		16

2nd Semester

CORE	[Eng 102 Comp II]	3
CORE	[Phys 100 Fund of Phys Sci]	5
CORE	[Oral Comm (Comm 100)]	3
CORE	[Psy 100 or Soc 110]	3
CORE	[HPER 101 Physical Activity]	1
		15

106 / Entrepreneurship, General Business

Sophomore Year

1st Semester

Acct 201	Prin of Accounting I	3
CORE	[Econ 201 Econ-Macro]	3
MM 237	Managerial Data Processing	3
CORE	[Fine Arts (Art 110, Mus 110 or Th 110)]	3
CORE	[Hist 110 American History]	3
		15

2nd Semester

Acct 202	Prin of Accounting II	3
Econ 202	Prin of Econ-Micro	3
CORE	[Literature (Eng 261, 262, 271, 272, 281 or 282)]	3
CORE	[Hist 120 American History]	3
Elective		3
		15

Junior Year

1st Semester

Econ 300	Money and Banking	3
Econ 350	Financial Management I	3
GB 301	Legal Environment of Bus I	3
MM 300	Prin of Marketing	3
MM 350	Prin of Management (WI)	3
		15

2nd Semester

GB 320	Business Comm (WI)	3
GB 321	Business Statistics I	3
Econ 402	Macroeconomics Analysis	3
OR		
Econ 450	Financial Management II	3
Advanced Business Elective (must be selected in consultation with faculty adviser from courses numbered 300 or above within the School of Business Administration)		3
Elective		3
		18

Senior Year

1st Semester

Econ 402	Macroeconomics Analysis	3
OR		
Econ 450	Financial Management II	3
Econ 411	Investments	3
Advanced Elective in Econ (selected in consultation with faculty adviser from courses numbered 300 or above)		3
CORE	[International Cultural Stu]	3
	(GB 310 strongly recommended)	
CORE	[Hum & Fine Arts Elective]	3
	(See Core Requirements, p. 35)	
Electives		6
		18

2nd Semester

Econ	Electives	13
MM452	Strategic Management (WI)	3
		16
		128

[Department Recommendations]

For additional information contact:
Dean of the School of Business
Office: Matthews Hall 302
Phone: 625-9319

Entrepreneurship

Matthews Hall 302, 625-9319

Faculty Bradshaw, Kleindl

A concentration in entrepreneurship is offered for all students, regardless of major, to enhance success of small business start-ups. This concentration prepares the students to start their own businesses.

Requirements for a Concentration in Entrepreneurship:

	Semester Hours
Ent 201 Entrepreneurship - Developing a Business Plan	1
Ent 202 Entrepreneurship - Business Opportunities	1
Ent 203 Entrepreneurship - Legal Aspects	1
Ent 204 Entrepreneurial Financing and Information - Initial Capitalization	1
Ent 205 Entrepreneurial Financing and Information - Cash Flow Budgeting	1
Ent 206 Entrepreneurial Financing and Information - Micro-computer Applications	1
Ent 207 Accounting for the New Venture - Procedures	1
Ent 208 Accounting for the New Venture - Records	1
Ent 209 Accounting for the New Venture - Taxation	1
Ent 210 Managing the Small Business - The Management Process	1
Ent 211 Managing the Small Business - Strategic Planning and Organizing	1
Ent 212 Managing the Small Business - Human Relations	1
Ent 213 Marketing the Small Business - Promotion	1
Ent 214 Marketing the Small Business - Pricing	1
Ent 215 Marketing the Small Business - Merchandise/Inventory	1
	15

General Business

Matthews Hall 302, 625-9319

Faculty Block, Bradshaw, Cragin, Finke, Goode, Johnson, Kleindl, Larson, Leitle, Miller, Rusley, Vernon, Tiede

The B.S.B.A. degree program in general business is intended to give the broadest possible background to the graduate and to prepare the graduate for managerial positions in the public and private sectors. The A.S. degree program prepares the graduate for first line supervisory and managerial duties.

Bachelor of Science in Business Administration with an Emphasis in General Business

	Semester Hours
Core Requirements (p. 35)	51
Business Core (p. 115-127)	39
General Business Emphasis:	18
Acct 325 Managerial Acct	3
Econ (selected from 300, 302, 312, 322, 330, 401, 411, 412, 415)	3
MM (selected from 352, 410, 412, 431, 441)	3
MM (selected from 312, 321, 401, 412, 432, 470)	3
MM 337 Management Information Systems	3
Advanced Business Elective (must be selected with adviser consultation & approval)	3
Electives	20
	128

Associate of Science in General Business

	Semester Hours
Core Requirements (p. 36)	25-26
General Business Concentration	27
Acct 201 Prin of Accounting I	3
Acct 202 Prin of Accounting II	3
Econ 201 Prin of Economics-Macro	3
Econ 202 Prin of Economics-Micro	3
GB 301 Legal Environment of Business I	3
GB 302 Legal Environment of Business II	3
MM 237 Managerial Data Processing	3
MM 300 Prin of Marketing	3
MM 350 Prin of Management (WI)	3
Business Electives (must be selected with approval of faculty adviser)	12
	64-65

Suggested Order of Study

Bachelor of Science in Business Administration Major Code 0501 General Business Emphasis

Freshman Year

Course	Hours
CORE [Eng 101 Comp I]	3
CORE [Math 131 Finite Math]	3
CORE [PSc 120 Gov't: U.S./Sta/Loc]	3
CORE [Bio 101 General Biology]	4
CORE [HPER 103 Lifetm Wellness]	2
Psy 120 College Orientation	1
	16

2nd Semester

CORE [Eng 102 Comp I]	3
CORE [Phys 100 Fund of Phys Sci]	5
CORE [Comm 100 Oral Comm]	3
CORE [Pys 100 or Soc 110]	3
CORE [HPER 101 Physical Activity]	1
	15

Sophomore Year

Course	Hours
Acct 201 Prin of Acct I	3
CORE [Econ 201 Economics-Macro]	3
MM 237 Managerial Data Processing	3
CORE [Fine Arts (Art 110, Mus 110 or Th 110)]	3
CORE [Hist 110 American History]	3
	15

2nd Semester

Acct 202 Prin of Acct II	3
Econ 202 Economics-Macro	3
CORE [Literature (Eng 261, 262, 271, 272, 281 or 282)]	3
CORE [Hist 120 American History]	3
Elective	3
	15

Junior Year

Course	Hours
Acct 325 Managerial Acct	3
GB 301 Legal Environment of Bus I	3
GB 320 Business Comm (WI)	3
MM 300 Prin of Marketing	3
MM 337 Management Infor Systems	3
	15

2nd Semester

Advanced Elective in Econ/Fin (must be selected from Econ 300, 302, 312, 322, 330, 401, 402, 411, 412 or 415)	3
Advanced Elective in Management (must be selected from MM 352, 354, 410, 412, 431, or 441)	3
GB 321 Business Statistics	3
Advanced Business Elective (must be selected in consultation with adviser from courses numbered 300 or above within the School of Business Administration)	3
MM 350 Prin of Management (WI)	3
Electives	3
	18

Senior Year

Course	Hours
1st Semester	
Advanced Elective in Marketing (must be selected from MM 312, 321, 401, 412, 432 or 470)	3
Econ 350 Financial Management I	3
CORE [International Cultural Stu] (GB 310 Strongly recommended)	3
CORE [Humanities and Fine Arts] (See Core Requirements, p. 35)	3
Electives	6
	18

2nd Semester

Advanced Business Elective (must be selected in consultation with faculty adviser from courses numbered 300 or above within the School of Business Administration)	3
MM 452 Strategic Management (WI)	3
Electives	10
	16
	128

Associate of Science

Major Code 5001 General Business Concentration

Freshman Year

Course	Hours
1st Semester	
Acct 201 Prin of Accounting I	3
CORE [Eng 101 Comp I]	3
MM 237 Managerial Data Processing	3
CORE [Psy 100 or Soc 110]	3
CORE [Math (30 or above)]	3
CORE [HPER 103 Lifetm Wellness]	2
	17

2nd Semester

Acct 202 Prin of Accounting II	3
CORE [Econ 201 Economics-Macro]	3
CORE [Hist 110 or PSc 120]	3
CORE [Comm 100 Oral Comm]	3
CORE [Art 110, Mus 110, Th 110, Literature or Phil 201]	3
CORE [HPER 101 Physical Activity]	3
	16

Sophomore Year

Course	Hours
1st Semester	
Business Electives (must be selected with adviser approval)	6
GB 301 Legal Environment of Bus I	3
Econ 202 Prin of Economics-Micro	3
MM 350 Prin of Management (WI)	3
	15

2nd Semester

GB 302 Legal Environment of Bus II	3
MM 300 Prin of Marketing	3
Business Electives (must be selected with adviser approval)	6
CORE [Bio 101 or Phys 100]	4-5
	16-17

[Department Recommendations]

For additional information contact:
Dean of the School of Business
Office: Matthews Hall 302
Phone: 625-9319

Management

Matthews Hall 302, 625-9319

Faculty Block, Bradshaw, Cragin, Gray, Johnson, Marion, Miller, Rozell, Stevens, Vernon

The B.S.B.A. degree with an emphasis in management is designed to prepare the graduate for entry level positions of responsibility in both the private and public sectors.

Bachelor of Science in Business Administration with an Emphasis in Management

	Semester Hours
Core Requirements (p.35)	51
Business Core Requirement	39
Management Emphasis	18
Acct 325 Managerial Acct	3
MM 337 Management Information Systems	3
MM 352 Human Resource Mgmt	3
MM 431 Operations	3
MM 441 Organizational Behavior	3
Advanced Elective (MM 354, 410, 411 or 412 strongly recommended)	3
Electives	20
	128

Suggested Order of Study

Bachelor of Science in Business Administration Major Code 0507 Management Emphasis

Freshman Year

Course	Hours
1st Semester	
CORE [Eng 101 Comp I]	3
CORE [Math 131 Finite Math]	3
CORE [PSc 120 Gov't: U.S./Sta/Loc]	3
CORE [Bio 101 General Biology]	4
CORE [HPER 103 Lifetm Wellness]	2
Psy 120 College Orientation	1
	16

2nd Semester

CORE [Eng 102 Comp II]	3
CORE [Phys 100 Fund of Phys Sci]	5
CORE [Comm 100 or 103 Comm]	3
CORE [Pys 100 or Soc 110]	3
CORE [HPER 101 Physical Activity]	1
	15

108 / Marketing, Management Technology

Sophomore Year

1st Semester		
Acct 201	Prin of Acct I	3
CORE	[Econ 201 Econ-Macro]	3
MM 237	Managerial Data Processing	3
CORE	[Fine Arts (Art 110, Mus 110 or Th 110)]	3
CORE	[Hist 110 American History]	3
		15

2nd Semester		
Acct 202	Prin of Acct II	3
Econ 202	Prin of Econ-Micro	3
CORE	[Literature (Eng 261, 262, 271, 272, 281 or 282)]	3
CORE	[Hist 120 U.S. 1877 - Pres]	3
Elective		3
		15

Junior Year

1st Semester		
Acct 325	Managerial Accounting	3
GB 301	Legal Environment of Bus I	3
GB 320	Business Comm (WI)	3
MM 300	Prin of Marketing	3
MM 337	Mgmt Information Systems	3
		15

2nd Semester		
GB 321	Business Statistics	3
Econ 350	Financial Management	3
MM 350	Prin of Management (WI)	3
MM 352	Human Resource Mgmt	3
Advanced Business Elective	(must be selected in consultation with adviser from courses numbered 300 or above within the School of Business Administration)	3
Elective		3
		18

Senior Year

1st Semester		
MM 431	Operations Management	3
MM 441	Organizational Behavior	3
CORE	[International Cultural Stu] (GB 310 Strongly recommended)	3
CORE	[Humanities & Fine Arts Elective] (See Core requirements, p. 35)	3
Electives		6
		18

2nd Semester		
Advanced Elective	(must be selected in consultation with adviser: MM 354, 410, 411 or 412 strongly recommended)	3
MM 452	Strategic Management (WI)	3
Electives		10
		16
		128

[Department Recommendations]

For additional information contact:
Dean of the School of Business
Office: Matthews Hall 302
Phone: 625-9319

Marketing

Matthews Hall 302, 625-9319

Faculty Blades, Bradshaw, Johnson, Kleindl, Marion, Miller

The B.S.B.A. with the marketing emphasis is intended to prepare graduates for positions in retailing, sales management, promotion, research and general administration.

Bachelor of Science in Business Administration with an Emphasis in Marketing

	Semester Hours	
Core Requirements (See p. 35)	51	
Business Core Requirements	39	
Marketing Emphasis	18	
MM 312	Retailing	3
MM 321	Salesmanship	3
MM 401	Promotional Strategy	3
MM 412	Marketing Management	3
MM 432	Consumer Behavior	3
MM 470	Marketing Research	3
Electives	20	
		128

Suggested Order of Study

Bachelor of Science in Business Administration

Major Code 0505

Marketing Emphasis

Freshman Year

1st Semester		
CORE	[Eng 101 Comp I]	3
CORE	[Math 131 Finite Math]	3
CORE	[PSc 120 Gov't: U.S./Sta/Loc]	3
CORE	[Bio 101 General Biology]	4
CORE	[HPER 103 Lifetm Wellness]	2
Psy 120	College Orientation	1
		16

2nd Semester		
CORE	[Eng 102 Comp II]	3
CORE	[Phys 100 Fund of Phys Sci]	5
CORE	[Comm 100 or 103 Comm]	3
CORE	[Psy 100 or Soc 110]	3
CORE	[HPER 101 Physical Activity]	1
		15

Sophomore Year

1st Semester		
Acct 201	Prin of Acct I	3
CORE	[Econ 201 Econ-Macro]	3
MM 237	Managerial Data Processing	3
CORE	[Fine Arts (Art 110, Mus 110 or Th 110)]	3
CORE	[Hist 110 American History]	3
		15

2nd Semester		
Acct 202	Prin of Acct II	3
Econ 202	Prin of Econ-Micro	3
CORE	[Literature (Eng 261, 262, 271, 272, 281 or 282)]	3
CORE	[Hist 120 American History]	3
Elective		3
		15

Junior Year

1st Semester		
GB 301	Legal Environment of Bus I	3
GB 321	Business Statistics	3
MM 300	Prin of Marketing	3
MM 350	Prin of Management (WI)	3
Elective		3
		15

2nd Semester		
GB 320	Business Comm (WI)	3
MM 312	Retailing	3
MM 321	Salesmanship	3
Electives	(must be selected in consultation with adviser from courses numbered 300 or above within the School of Business Administration)	9
		18

Senior Year

1st Semester		
MM 401	Promotional Strategy	3
MM 412	Marketing Management	3
CORE	[International Cultural Studies] (GB 310 strongly recommended)	3
CORE	[Humanities & Fine Arts Elective] (See Core Requirements p. 35)	3
Electives		6
		18

2nd Semester		
MM 432	Consumer Behavior	3
MM 452	Strategic Management (WI)	3
MM 470	Marketing Research	3
Electives		8
		17
		129

[Department Recommendations]

For additional information contact:
Dean of the School of Business
Office: Matthews Hall 302
Phone: 625-9319

Management Technology

Matthews Hall 302, 625-9319

The B.S. in management technology major course of study is for students who have already received an associate degree in a technical field or other technical preparation approved by the adviser and school dean and who desire to obtain the necessary business skills to become technical supervisors or first line managers. Students must apply for admission to the program in the first semester of the junior year.

Bachelor of Science in Management Technology

		Semester Hours
Core Curriculum (p.35)		51
Management Technology Major		42
(1) Required:		
Acct 201	Prin of Accounting I	3
Acct 202	Prin of Accounting II	3
GB 301	Legal Environment of Business I	3
GB 302	Legal Environment of Business II	3
GB 320	Business Comm (WI)	3
Econ 201	Prin of Economics-Macro	3
Econ 202	Prin of Economics-Micro	3
Econ 350	Financial Management	3
MM 237	Managerial Data Processing*	3
MM 300	Prin of Marketing	3
MM 350	Prin of Management (WI)	3
MM 431	Operations Management	3
		33
(2) Three additional courses selected from:		
Acct 325	Managerial Accounting	
GB 321	Business Statistics I	
MM 352	Human Resource Management	
MM 401	Promotional Strategy	
MM 412	Marketing Management	
MM 452	Strategic Management (WI)	9
Electives (Includes courses already taken at associate level)		35
		128

*Students obtaining an A.S. in computer science may not choose MM 237 as a required elective.

Management Technology (CIM Emphasis)

Matthews Hall 302, 625-9319

The School of Business Administration, in cooperation with the School of Technology, offers the bachelor of science in management technology with emphasis in computer integrated manufacturing (CIM).

The emphasis area is designed to recognize the revolution in the management of materials, production processes, personnel and information which has taken place in the last decade. This program takes advantage of the existing excellence Missouri Southern has achieved in the CADD and CAM areas and combines it with the latest advances in the business area as presented by course work in the School of Business Administration.

Students who complete this combination of courses will have been exposed to the new "World Class Management Technology" which will characterize manufacturing competition well into the next century.

Bachelor of Science in Management Technology (CIM Emphasis)

		Semester Hours
Core Curriculum (p.35)		51
Management Technology		36
Acct 201	Prin of Accounting I	3
Acct 202	Prin of Accounting II	3
Acct 325	Managerial Accounting	3
GB 320	Business Commun- ications (WI)	3
GB 321	Business Statistics	3
GB 405	Statistical Quality Control	3
Econ 202	Prin of Economics-Micro	3
(Assume Econ 201 taken in General Core)		
MM 300	Prin of Marketing	3
MM 337	Management Information Systems	3
MM 350	Prin of Management (WI)	3
MM 354	Total Quality Management	3
MM 431	Operations Management	3
		36

CADD and CAM specialization- School of Technology

40
127

For additional information contact:
Dean of School of Business Administration
Office: Matthews Hall 302
Phone: 625-9319

Students should consult the Dean of the School of Technology at the earliest possible date in order to incorporate the correct sequence into the appropriate associate of science degree program.

Course Descriptions

Accounting (Acct)

Acct 201 (F, S) 3 hrs. cr.

Principles of Accounting I

Fundamental principles of accounting as applied to modern business practice. Study of the complete accounting cycle and analysis of balance sheets and income statements. Emphasis on a single owner business. Prerequisite or corequisite: Math 131.

Acct 202 (F, S) 3 hrs. cr.

Principles of Accounting II

A continuation of Accounting 201 with an emphasis on corporations and partnerships and cost/managerial accounting principles. Prerequisite: Acct 201.

Acct 310 (F, S) 3 hrs. cr.

Cost Accounting

Study of accounting cost systems providing information generation for managerial planning and control. Special emphasis on product and process cost systems as applied to industrial enterprises. Prerequisites: Acct 202, MM 237

Acct 312 (F, S) 3 hrs. cr.

Intermediate Accounting I

First of two courses that comprehensively cover financial accounting for business enterprises (with emphasis on the corporation). The course is organized in three areas: (1) environment of financial accounting and basic theory underlying financial accounting; (2) accounting process from transaction analysis to financial statements; (3) accounting for assets. Prerequisites: Acct 202, MM 237.

Acct 322 (F, S) 3 hrs. cr.

Intermediate Accounting II

Second of two courses that comprehensively cover financial accounting for business enterprises (with emphasis on the corporation). Organized in three major areas: (1) accounting for liabilities and long-term investments; (2) shareholders' equity and earnings per share; (3) financial statement reporting and analysis. Prerequisite: Acct 312.

Acct 325 (F, S) 3 hrs. cr.

Managerial Accounting

Accounting as a tool for the process of planning, controlling and decision making. Emphasis on where accounting data is obtained, what kind of information is needed and how it is used in the management process. This course may not be taken by the accounting major to satisfy accounting core requirements. Prerequisite: Acct 202.

Acct 332 (F, S) 3 hrs. cr.

Intermediate Accounting III

Third of three courses that comprehensively cover financial accounting concepts and standards for business enterprises (with emphasis on the corporation). Covers the following areas: income taxes, post-retirement benefits, leases, cash flows, earnings per share, accounting changes and errors, financial reporting/analysis and accounting for changes in prices. Prerequisite: Acct 322.

110 / Courses • Economics and Finance

Acct 375 (F, S) 3 hrs. cr.
Tax Accounting I

Procedures for reporting federal income taxes with emphasis on income and deductions for individuals. Practice in preparing federal income tax returns. Prerequisite: Acct 202 or permission/and MM 237.

Acct 402 (F, S) 3 hrs. cr.
Advanced Accounting

Application of accounting principles of partnerships, branch accounting, business combinations, consolidated statements, segment reporting, reporting by multinational companies, bankruptcy and corporate reorganization, estates and trusts. Prerequisite: Acct 322

Acct 408 (Demand) 3 hrs. cr.
Tax Accounting II

Procedures for reporting federal income taxes with emphasis on corporations, partnerships, estates and trusts. Practice in preparing federal income tax returns of these business entities. Prerequisite: Acct 375.

Acct 411 (F, S) 3 hrs. cr.
Auditing

Overview of the certified public accounting profession with special attention to auditing standards, professional ethics, the legal liability inherent in the attest function, the study and evaluation of internal control, the nature of evidence, the growing use of statistical sampling, the impact of electronic data processing and performing an audit. Prerequisite: Acct 322.

Acct 412 (Demand) 3 hrs. cr.
CPA Problems

Preparation for the Uniform Certified Public Accountant Examination. Includes methods of studying for the examination, lectures and problem solving exercises and a review of appropriate theoretical and technical pronouncements. Prerequisites: 21 hours of accounting including Acct 411 (Auditing) or senior standing AND permission of instructor.

Acct 418 (Demand) 3 hrs. cr.
Tax Accounting III

Procedures for reporting federal income taxes with emphasis on family tax planning, international tax and multi-state tax reporting. In addition, tax research procedures will be used to integrate tax topics examined in Tax Accounting I and Tax Accounting II. Prerequisite: Acct 375.

Acct 420 (Demand) 3 hrs. cr.
Accounting Theory

Study of the theory of income, asset valuation and history of accounting thought. Critical discussion of the authoritative pronouncements of the Financial Accounting Standards Board. Provides a coherent set of logical principles that form the general frame of reference for the evaluation and development of sound accounting principles. Prerequisite: Acct 322.

Acct 421 (F, S) 3 hrs. cr.

Governmental and Nonprofit Accounting

Study of accounting principles, standards and procedures that apply to governmental entities. Primary emphasis is accounting for municipalities. Provides background for studying accounting systems of college and universities, hospitals and other nonprofit entities. Prerequisite: Acct 322.

Acct 422 (Demand) 3 hrs. cr.

Advanced Cost Accounting

Advanced study in decision models and cost information, system choice, strategy and management control. Special emphasis on total quality management and time related management control initiatives. Prerequisite: Acct 310.

Acct 431 (Demand) 3 hrs. cr.

Advanced Auditing

An integration of auditing concepts from Auditing I emphasizing a collaborative learning style relying on numerous case exercises. In addition, other specialized audit reports will be examined including prospective financial statements and compilation and review engagements. Finally, internal, operational and governmental audits will be examined. Prerequisite: Acct 411.

Acct 440 (Demand) 3 hrs. cr.

Professionalism and Ethics in Accounting

A comprehensive examination of the ethical issues that may confront the student during their professional career. Provides a decision model for evaluating alternative courses of action when such dilemmas are encountered.

Acct 491 (Demand) 1-8 hrs. cr.

Internship in Public Accounting

Selected senior accounting students serve an internship of approximately 60 work hours per credit hour earned as junior accountants on the staff of practicing certified public accountants and/or private industry. Supervised by faculty. Oral and written reports required. Prerequisites: Acct 322, 401, 411 and/or consent of the internship committee. (Not more than 3 hrs. per semester)

Acct 498 (Demand) 1-3 hrs. cr.

Seminar in Accounting

For upper division accounting or related majors with topics to be announced each time the course is offered. Prerequisite: Senior standing or permission. Seminars offered in the past include Advanced Auditing and Advanced Cost.

Acct 499 (Demand) 1-3 hrs. cr.

Independent Study in Accounting

Individually directed readings, research and discussion in selected areas of accounting for advanced majors. Scope, depth, area of concentration and credit to be arranged upon entry into course. Offered by arrangement. Prerequisite: Permission and a minimum 3.0 GPA.

Economics and Finance (Econ)

Econ 180 (F, S) 3 hrs. cr.

The American Economic System

A core course on the goals, organization and operation of the U.S. economy. Topics include: scarcity and choice; the role of profits, savings, investment and competition as a pricing mechanism in the allocation of resources; the economic functions of government including fiscal and monetary policy tools used for macroeconomic stabilization; limitations of the market system; other types of economic systems; industrial organization of America's contemporary capitalistic economy including the activities of the business firm; and the rationale for international trade and the effects of trade barriers. Not for business majors or for those who have taken Econ 201 or 202.

Econ 201 (F, S) 3 hrs. cr.

Principles of Economics (Macro)

A basic course that explains the organization, operation and goals of the U.S. economic system with emphasis on basic principles and concepts; measurement, determination and stabilization of national income; unemployment and inflation; the role of money and monetary policy; international finance; and current economic problems. Prerequisites: Sophomore standing or permission, Math 130 or above.

Econ 202 (F, S) 3 hrs. cr.

Principles of Economics (Micro)

A continuation of economic principles with emphasis on the theory of price determination and income distribution, with particular attention to the nature and application of those bearing on decision making within a household, firm or industry; cost and revenue implications of various product and factor market structures; and international trade. Prerequisite: Sophomore standing or permission, Math 130 or above.

Econ 300 (F, S) 3 hrs. cr.

Money and Banking

The nature, need, functions, role, creation and destruction of money and credit; financial institutions and their functions with special emphasis on the commercial banking system and the Federal Reserve system; introduction to monetary theory and policy; international aspects of money and monetary policy. Prerequisites: Econ 201 and 202.

Econ 302 (Demand) 3 hrs. cr.

Economic Growth and Development

The meaning of economic growth and development, the problems associated with measurement and comparisons of economic growth between more developed and less developed countries, the study of changes that take place in the course of growth, the factors that contribute or hinder growth, economic growth theories and models, policy considerations and the international aspects of economic growth. Prerequisites: Econ 201 and 202.

Econ 312 (Demand) 3 hrs. cr.
Economic Resources

Allocation of resources in order to satisfy human wants and desires through the use of economic principles and concepts. Both micro and macro principles used as well as functional concepts of resources, trends in resource development and utilization and an appraisal of resource potentials. Prerequisites: Econ 201 and 202.

Econ 330 (Demand) 3 hrs. cr.
Principles of Insurance

Survey of the fundamentals of insurance including risk management, interpretation of policies, property insurance, liability insurance, health insurance and life insurance. Prerequisite: Econ 201 and 202.

Econ 350 (F, S) 3 hrs. cr.
Financial Management I

Study of the financial operating environment and financial analyses; risk and valuation, time value of money, capital budgeting, cost of capital and leverage, working capital management and dividend policy. Prerequisites: Econ 201 and 202, Acct 202, MM 237.

Econ 401 (F) 3 hrs. cr.
Microeconomic Analysis

The price system and resource allocation through a system of markets and prices; price and output determination in perfect and imperfect markets; resource markets and income determination. Prerequisites: Econ 201 and 202.

Econ 402 (S) 3 hrs. cr.
Macroeconomic Analysis

National income determination with various macroeconomic models; fiscal and monetary policy; international linkages; consumption and investment; trade-offs between inflation and unemployment. Prerequisite: Econ 300.

Econ 411 (F) 3 hrs. cr.
Investments

Principles underlying investment analysis and policy; salient characteristics of governmental and corporate securities; policies of companies and investing institutions; relations of investment policy to money markets and business fluctuations; security price-making forces. Prerequisite: Econ 350.

Econ 412 (Demand) 3 hrs. cr.
Urban and Regional Economics

Introduction to the application of economic principles in the study of urban and regional economic environment. Analysis of spatial price theory, transportation costs, the law of markets, location theory and the spatial distribution of activities, economic base theory input-output technique, central place theory, land use, regional growth, migration, regional policy objectives and current urban problems. Prerequisites: Econ 201 and 202.

Econ 415 (Demand) 3 hrs. cr.
Financial Institutions

A broad introduction to the operation, mechanics and structure of the financial system of the U.S. Emphasis on the major institutions, including the Federal Reserve System, commercial banks and savings institutions and on the primary markets (money and capital) that make up the system of intermediation of savings into investment.

Econ 420 (Demand) 3 hrs. cr.
Security Analysis

A broad introduction to basic stock selection using "fundamental analysis whereby "over" and "under" valued stocks are to be identified. The class will construct a common stock portfolio of 10 to 50 stocks. Other topics covered will include; basic schools of investment thought (EMH, fundamental, technical diversification, quality of earnings and factors affecting equity ownership.

Econ 450 (Demand) 3 hrs. cr.
Financial Management II

Follows Financial Management I and covers topics not covered in the first course such as: financial planning, capital budgeting under constraints of mutual exclusiveness and capital rationing, leverage (both operating and financial), debt financing, common stock (including dividend policy), preferred stock, leasing, mergers, LBO's, and international finance. Prerequisite: Econ 350.

Econ 498 (Demand) 1-3 hrs.
Seminar in Economics and Finance

Seminar for upper division majors with topics to be announced each time the course is offered. Prerequisite: Senior standing or permission. Examples of seminars offered in the past are: 498-Seminar in International Economics 498-Seminar in Business Cycles 498-Seminar in Public Finance

Econ 499 (Demand) 1-3 hrs. cr.
Independent Study in Economics-Finance

Individually directed readings, research and discussions in selected areas of economics and finance for advanced majors. Scope, depth, area of concentration and credit to be arranged upon entry into course. Offered by arrangement. Prerequisites: Permission and 3.0 GPA.

GB 110 (F, S) 3 hrs. cr.
Typewriting/Formatting

A business communications typing course. Covers all styles of business letters, technical and statistical reports, tables and employment communications. Prerequisite: GB 105 or a good knowledge of the keyboard.

GB 112 (S) 3 hrs. cr.
Typewriting/Electronic Document Production

Production of all types of letters, reports, business forms, tables and legal forms based on realistic office job simulations. Prerequisite: GB 110 or equivalent.

GB 250 (Demand) 3 hrs. cr.
Word Processing Concepts/Applications

Introduction to the total concept of word processing as it relates to administrative services and machine technology in the modern business organization. Prerequisite: GB 110 Typewriting.

GB 301 (F, S) 3 hrs. cr.
Legal Environment of Business I

Common law principles and statutes, particularly the Uniform Commercial Code, as they relate to American business. Includes the court systems and procedures, contracts, personal property and bailments, sales and commercial paper. Special emphasis on Missouri case-law and statutes.

GB 302 (F, S) 3 hrs. cr.
Legal Environment of Business II

Common law principles and statutes, particularly the Uniform Commercial Code, as they relate to American business. Brief overview of criminal law and tort law, government control and regulation, secured transactions, insurance, bankruptcy, agency and employment, partnerships, corporations, real property and estates. Prerequisite: Junior standing.

GB 310 (F, S) 3 hrs. cr.
International Business

Introduction to the intricacies and complexities of international trade and business. The course provides an overview of the international organizations and the effects of the foreign environment on international business. The course will focus on cultural differences; theories of international trade and economic development; international finance; marketing internationally and practical applications of starting and maintaining international business relationships. Prerequisites: Econ 180 or Econ 201.

GB 312 (F) 3 hrs. cr.
Principles of Business Education

Fundamentals of business education including curriculum, trends, equipment, materials, professional organizations and vocational programs. For business education majors only.

Educ 336 (S)
Teaching Business in Secondary Schools
(See Educ 336)

GB 320 (F, S) 3 hrs. cr.
Business Communication (Writing Intensive)

Principles of writing effective letters, memos and reports to solve real-world situations. Emphasis on contemporary issues and the employment process. Prerequisites: 6 hrs. English Comp or permission of instructor.

General Business (GB)

GB 101 (F, S) 3 hrs. cr.
Introduction to Business

Modern American business, including a study of the capitalistic system, ownership and organization, management problems, marketing, finance, law and taxation. Not available for credit for those with more than 6 hrs. of business.

GB 105 (F) 3 hrs. cr.
Typewriting/Keyboarding

Emphasis on learning to manipulate the keyboard efficiently, stressing the development of both speed and accuracy so the student will acquire a personally useful skill. A few simple letter styles are taught as well as manuscript style and basic tabulation. No credit given to students with one year of high school typewriting.

112 / Courses • Marketing and Management

GB 321 (F, S) 3 hrs. cr.
Business Statistics I

Methods of collection, analysis, interpretation and presentation of data related to business. Topics include frequency distribution, measures of central tendencies and dispersion, regression and correlation analysis, probability concepts, sampling distributions, estimation procedures and hypothesis testing. Computer statistical packages will be utilized in analysis and application of problems. Prerequisite: Math 130, 131 or higher, MM 237.

GB 322 (S) 3 hrs. cr.
Business Statistics II

Methods of statistical analysis relating to business decision making and research in business and economics. Emphasizes sampling theory, parametric test of hypothesis, analysis of variance, nonparametric test of hypothesis, statistical quality control and other selected statistical techniques. Computer statistical packages will be utilized in analysis and application of problems. Prerequisite: GB 321.

GB 405 (Demand) 3 hrs. cr.
Statistical Quality Control

Impact of foreign competition on American industry and need for quality productivity and management improvement. Attention to the Deming management principles and statistical and quantitative methods used by major industries. Prerequisites: GB 321 or consent of instructor.

GB 498 (Demand) 1-3 hrs. cr.
Seminar in General Business

For upper division general business or related majors with topics to be announced each time the course is offered. Prerequisite: Senior standing or permission. Seminar topics offered in the past include office machines, career orientation and human relations.

GB 499 (Demand) 1-3 hrs. cr.
Independent Study in General Business

Individually directed readings, research and discussions in selected areas of general business for advanced majors. Scope, depth, area of concentration and credit to be arranged upon entry into course. Offered by arrangement. Prerequisites: Permission and 3.0 GPA

Marketing and Management (MM)

MM 237 (F, S) 3 hrs. cr.
Managerial Data Processing

Principles of information processing in the business environment. Covers components of personal and business information systems and introduction to DOS and industry standard application software packages (i.e. word processing and spreadsheet). Includes hands-on use of microcomputers.

MM 300 (F, S) 3 hrs. cr.
Principles of Marketing

Survey of major marketing methods, institutions and practices. Retailing, wholesaling, distribution channels, marketing legislation, advertising, marketing research and marketing cost are treated from the standpoint of consumers, middlemen and manufacturers. Prerequisite: Econ 202.

MM 312 (F) 3 hrs. cr.
Retailing

Principles of successful retail management, including managing retail operations, administration and control, location analysis, merchandising, promotion and review of the retail environment; with analytic and research methods applicable to retail problems. Prerequisite: MM 300.

MM 321 (F) 3 hrs. cr.
Salesmanship

Familiarizes business students with management and industrial selling. Stresses practical aspects through actual sales presentation by the students who are videotaped and critiqued according to basic selling principles. Prerequisite: MM 300.

MM 337 (F, S) 3 hrs. cr.
Management Information Systems

Familiarizes business students with management information systems, including proper selection of software and hardware components. Prerequisite: MM 237 or CIS 115 and 120.

MM 350 (F, S) 3 hrs. cr.
Principles of Management (Writing Intensive)

A study of the planning, organizing, leading and controlling functions of management including global, social responsibility and ethical management challenges. Prerequisite: Junior standing.

MM 352 (F, S) 3 hrs. cr.
Human Resource Management

Principles and practices of management with emphasis on the human factors, including procurement, development and maintenance of an effective work force. Prerequisite: MM 350 or consent of instructor.

MM 354 (F, S) 3 hrs. cr.
Total Quality Management

Total Quality Management (TQM) is an overview of an evolving philosophy for continuous improvement of products, process and services to enhance quality while reducing costs. It is a management/technical/cultural approach to the integration of all systems and processes of an enterprise to achieve "customer" satisfaction. Prerequisite: MM 350, GB 321 or consent of instructor.

MM 401 (S) 3 hrs. cr.
Promotional Strategy

Description of fundamental advertising and promotional principles and their application in mass marketing. Analysis of advertising media, the preparation of advertising and formulation of campaigns. Prerequisite: MM 300.

MM 410 (F, S) 3 hrs. cr.
Small Business Management Practicum

A practical course in solving real problems in an actual business environment. Students provide counseling to small business firms through cases referred by the Small Business Administration. Course may be repeated for a total of six hours of credit. Prerequisite: Second semester junior or senior standing in business administration and permission of instructor. Application for admission to the course is required. Formerly GB 410.

MM 411 (Demand) 3 hrs. cr.
Labor Law

Significant legislation and the accompanying case decisions which have a major impact on labor/management relations. Primary emphasis on the Labor-Management Relations Act, as amended, with special attention to establishment of the bargaining unit and unfair labor practices of both labor and management. Secondary emphasis on Fair Employment practices. Prerequisite: Junior standing. Formerly GB 411.

MM 412 (F) 3 hrs. cr.
Marketing Management

Managerial aspects of marketing: problems involved in goal setting, planning and strategies as they apply to product policy, pricing objectives, promotional objectives, distribution policy and marketing intelligence. Prerequisites: MM 300 and MM 350.

MM 431 (F) 3 hrs. cr.
Operations Management

Principles and decision analysis related to the effective utilization of the factors of production and operations in manufacturing activities for both intermittent and continuous systems. The study of operations management, analytical models and methods, facilities design and the use of computer modeling for control systems for effective production operations. Prerequisite: GB 321, Business Statistics I.

MM 432 (Demand) 3 hrs. cr.
Consumer Behavior

An interdisciplinary approach to the analysis and interpretation of consumer buying habits and motives and the resultant purchase of goods and services. The purchaser's psychological, economic and socio-cultural actions and reactions are stressed. Prerequisite: MM 300.

MM 441 (F, S) 3 hrs. cr.
Organizational Behavior

A study of the organization, human behavior in organizational settings and the interface between them. Prerequisite: MM 350, Senior standing.

MM 450 (Demand) 3 hrs. cr.
The Psychology of Human Resource Management

Traditional areas of human resource management/organizational psychology are addressed, including group interaction, communication, attitudes, interviewing, compensation and benefits and legal environment. An interdisciplinary approach will be taken. The contents will be presented using both theory and experimental methods.

Courses • Marketing and Management / 113

MM 452 (F, S) 3 hrs. cr.

Strategic Management (Writing Intensive)

A capstone course integrating business disciplines with formal analyses of the organization's macro and industry environment; mission and goals; and strategy formulation, implementation and control using the case approach method.

Prerequisites: Senior standing, MM 300, MM 350, Econ 350; must be taken during the last year of college work.

MM 470 (S) 3 hrs. cr.

Marketing Research

The systematic gathering, recording, analyzing and presentation of data relating to market analysis, sales analysis, consumer research, advertising research and attitude research. Prerequisites: GB 321 and six hours of marketing.

MM 491 (F, S) 18 hrs. cr.

Internship in Marketing/Management

An internship for senior marketing/management students with an opportunity to observe and participate in actual business operations within the community. All internships must conform to institutional policy regarding the number of hours of work, the number of credit hours and written agreements with the cooperating business or agency. Prerequisites: 65 hours, 3.00 GPA and department approval.

MM 498 (Demand) 1-3 hrs. cr.

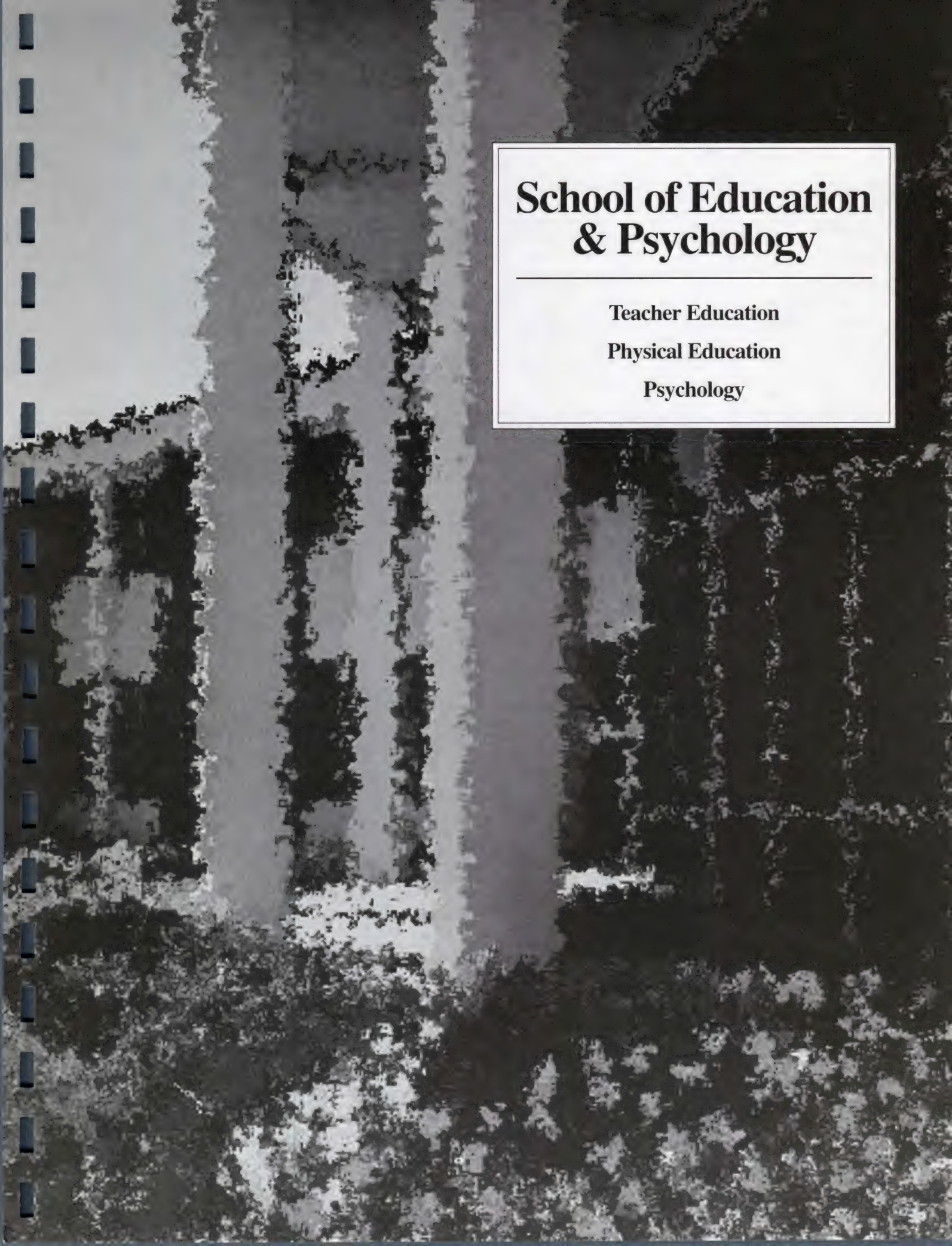
Seminar in Marketing and Management

Seminar for upper division marketing and management or related majors with topics to be announced each time the course is offered. Prerequisite: Senior standing or permission.

MM 499 (Demand) 1-3 hrs. cr.

Independent Study in Marketing and Management

Individually directed readings, research and discussions in selected areas of marketing and management for advanced majors. Scope, depth, area of concentration and credit to be arranged upon entry into course. Offered by arrangement. Prerequisites: GPA of 3.0 in major field and permission.



School of Education & Psychology

Teacher Education

Physical Education

Psychology

School of Education & Psychology

School Dean

Edward P. Merryman
Taylor Hall 220, 625-9314

Degrees and Majors

Bachelor of Arts

Psychology

Bachelor of Science

Psychology

Bachelor of Science in Education

Elementary Education

Secondary Education

Physical Education

Role

The School of Education and Psychology shares in the mission of Missouri Southern by providing the professional education for preservice elementary and secondary teachers, and by preparing students in professional education and psychology for graduate education. The School of Education and Psychology serves the institution by providing support courses in physical education and psychology to the Core Curriculum.

The programs in the School of Education and Psychology are service-oriented and attract students who wish to make their contribution to society through teaching, research and humanitarian services. Because of the critical nature of the contributions these students make to society, those who are academically talented are encouraged to participate in the program.

A unique characteristic of the basic teacher preparation program is the shared responsibility for training preservice elementary and secondary teachers with academic units outside of the School of Education and Psychology. Eighty percent of the course work in secondary education and 70 percent of the course work in elementary education is done in academic units outside the professional education unit. The Secondary Education Committee coordinates the work done by secondary education students in academic units in the School of Arts and Sciences and the School of Business Administration. All academic units have representatives on this committee. The ultimate responsibility for all teacher education programs rests with the Education Department, which is the governing unit for the basic teacher preparation program.

Scope

The School of Education and Psychology contributes to the mission of the College through teaching, community service and research.

The faculty in the School of Education and Psychology are dedicated to providing students with exemplary teaching. Since the faculty serve as professional role models for their students, they are aware of current pedagogical practices that have been developed from research and learning theory and they use this knowledge to develop teaching methods, techniques and procedures to create a maximal learning environment. Faculty provide services to the community by participating in civic organizations as leaders, members and consultants. All of the faculty work with the area schools through in-service programs, programs that have been developed for children and as consultants.

The faculty contribute to the advancement of knowledge in their respective fields through research and writing. Research that has been done in area schools has contributed to the improvement of the quality of teaching.

Teacher Education

The description of the teacher education program and the requirements that are listed for each program in teacher education in this catalog are subject to change during the period that this catalog is in use; therefore, the catalog is not a contract and should not be treated or viewed that way. At best, it is a guide. Teacher education students are encouraged to obtain degree plan sheets for the program they are pursuing and work closely with their advisers. As changes are made by the State Department of Elementary and Secondary Education, state legislature, and national accrediting bodies, we will alert the students in the program.

The teacher education program consists of the education department as the governing unit, the secondary education committee which oversees the secondary education program, the teacher education council, and the committee on admissions and retention.

The education department, in its function as the governing unit in teacher education, oversees all teacher education programs and is specifically responsible for the elementary education program grades 1 through 6, early childhood education program grades preschool through 3, middle school program grades 5 through 9, reading

education program grades K through 12, and special education programs grades K through 12.

The Dean of the School of Education and Psychology is the chief spokesman for the teacher education program and in this capacity is the chief administrator responsible for the teacher education programs. The dean serves in this capacity under the direction of the president of the college, senior vice president and the vice president for academic affairs.

The teacher education program is based on a decision making model which defines the role of the teacher as decision maker. In this role, the teacher must make decisions about pedagogical design and lesson design. Decisions concerning pedagogical design include those regarding classroom management, curriculum development, field experiences, technology and program evaluation. Decisions about lesson design include communications, use of science, technology and the arts, problem solving, value clarification, intellectual domains and social institutions. An extension of the role of the teacher as a decision maker includes the teacher as a change agent, learner, provider of services and researcher.

Central to the conceptualization of the role of the teacher is the knowledge base. The knowledge base is composed of knowledge, skills, techniques, concepts, constructs, etc., that have been gathered from research, reported effective practices and learned societies in such areas as school effectiveness, principles of effective instruction, human growth and development, learning theory, assessment, cultural diversity and special needs, curriculum content, and psychological, sociological, historical and philosophical foundations.

In order to be an effective decision maker, the teacher must possess certain knowledges, cognitive abilities and pedagogical skills. The objectives below were developed to assure the teacher education program provides these knowledges and skills:

1. to provide a working knowledge and competency in the philosophical, sociological and psychological foundations of education. This knowledge is used as a basis for decision making, instructional design and educational planning;

2. to guide in the effective application of learning theory. This application shall include the learning environment learner attributes and learning tasks;
3. to provide cognitive, affective and psychomotor learning in communication, problem solving, value clarification, social institutions, science and technology and the arts;
4. to develop an understanding of how the human grows and develops. This understanding includes the theoretical basis for development and how this relates to teaching and learning;
5. to create an awareness of the cultural diversity that exist in our society and to provide knowledge relative to the contribution made by the various cultures to the American culture;
6. to develop teaching expertise in the teaching specialty which shall include both breadth and depth in subject matter as well as the methods, techniques and skills for teaching this subject matter;
7. to teach the knowledge and skills needed to develop instructional plans, strategies and assessments basic to meeting individual needs of students that may be evident in cultural diversity, values clarification and mental and physical exceptionalities;
8. to achieve knowledge for the effective use of various classroom management systems such as counseling, congruent communication, assertive discipline, reality therapy, etc. To develop the belief that there is a strong relationship between classroom management practices and teaching effectiveness;
9. to make available experiences in learning to utilize and apply technology in education, such as microcomputers, VHS and film media. To develop effective use of the new technology as delivery systems for instructional purposes;
10. to provide the knowledge and skills necessary to organize and manage an effective school environment. These will help in the management of instructional experiences, the instructional materials and all other physical properties related to learning;
11. to develop competency in the assessment of developmental and behavioral problems. The assessment competencies shall include instrumentation, administration and interpretation. Interpretative skills shall include the use of assessments in educational planning;
12. to provide the knowledge and skills required for reporting to, and working with, parents and parental support. The reporting to parents shall involve accurate and effective communication, both in writing and orally, concerning the needs and progress of students. In addition, to provide the knowledge and skills required to make referrals to community support systems and services for students needing intervention beyond the regular classroom instruction;
13. to provide practical experiences that accurately reflect those that occur in typical classroom settings. These experiences will provide opportunities to interact with the learner in the learning environment. The learning environment will be rich in opportunities to observe practices, methods and techniques as they are applied to learning and the learner;
14. to develop plans for continuous professional growth and development which includes self evaluation, performance based teacher evaluation and other forms of peer evaluation. Opportunities and experiences for the personal development of high ethical standards will be provided.
4. Have a composite ACT enhanced score of 20 or a SAT(VM) of 800.
5. Submit a hand-written autobiography in correct and coherent standard English. The autobiography must be read and approved by the student's adviser.
6. Submit a passing evaluation in speech from the communications department.
7. Convicted felons must identify themselves by so indicating on the application for admission form. Upon identification the student will need to make certain documents and information available to the Admissions and Retention Committee of the Teacher Education Program, i.e., conviction status, probation information, recommendations from court and public officials associated with the conviction. This process must be repeated when application is made for student teaching. There is a process that convicted felons must follow before consideration is given for certification in the State of Missouri. Failure to identify oneself will cause the student to be removed from the program at once.

Students who are tentatively admitted to the teacher education program will receive notification from the Dean. Students who fail to gain tentative admission will also be notified by the Dean. Reasons for failure to gain admission will be stated, along with suggested corrective measures should the student wish to continue pursuing admission.

Full admission is granted when the student successfully completes Educ 329, Pedagogical Theory, Methods and Practices, Educ 321, Micro Teaching and Educ 423, Classroom Management. The student must be recommended by the instructors of these courses. The student must maintain a cumulative GPA of 2.75. If at any point in the program a student's GPA drops below accepted levels, the student will be dropped from the teacher education program.

Grades below a "C" in professional education courses will not be accepted for the degree requirements in teacher education. Students seeking certification in elementary education, special education and early childhood education must have a grade of "C" or better in each of the courses in these certification areas.

Students qualifying for full admission to the program will be notified in writing by the Dean. The date of admission will be entered on the student's record by the Registrar.

Admission to the Teacher Education Program

Applications for admission to the Teacher Education Program may be filed with the Dean of the School of Education when the student has successfully completed 55 semester hours of prescribed course work. The deadline for application is the third week in February for those seeking admission in the subsequent fall semester. The deadline for application for those seeking admission in the spring semester is the third week in October.

Students must be tentatively admitted before courses can be taken in professional education. These courses are identified by the Educ prefix numbers as 300 or above. Qualifications for tentative admission include the following:

1. Submit a completed application that is signed by the student's adviser.
2. Have a cumulative GPA of 2.75 in all course work. All students in education must maintain a cumulative GPA of 2.5 in their teaching areas, e.g., art, mathematics, elementary education, etc.
3. Pass all sections of the Missouri C-Base Test. (This test is not required of post baccalaureates.)

Unsuccessful students will also be notified and corrective measures suggested.

Applications for admission must be completed and on file in the office of the Dean of the School of Education and Psychology by Friday of the third week in October for the first semester and by Friday of the third week in February for the second semester.

Admission to Student Teaching

Between the course on Pedagogical Theory, Methods and Practices (Educ 329) and the professional semester, the student takes approximately 26 or more hours of work in professional education and in a teaching specialty. During this time the student must maintain a cumulative GPA of 2.75 or better and a GPA of 2.5 or better in the teaching specialty. The student must make a "C" or better in all professional education courses. The student must retake courses in which a grade lower than "C" is received. The student is expected to maintain those personal and professional requirements that were met as part of the admission requirements to teacher education. The requirements that must be met prior to admission to student teaching are:

1. Be fully admitted to the teacher education program.
2. Have a cumulative GPA of 2.75.
3. Have a cumulative GPA of 2.5 in teaching specialty area.
4. Have all previous course work completed at the time of student teaching.
5. Have a completed application for student teaching on file.
6. Have a grade of "C" or better in each professional education course.
7. Have an approved typewritten autobiography on file. The autobiography must consist of two or more paragraphs.
8. Convicted felons must complete the form provided upon applying for admission to student teaching.

The student teaching program is intended for students who have met all of the requirements for student teaching at Missouri Southern State College. Students from other institutions who have, with the exception of student teaching, completed the teacher education program at those institutions and who were awarded baccalaureate degrees, must complete the equivalent of the professional semester at Missouri Southern. They must be in good standing at their previous institution. The Dean of the School of Education and Psychology will develop a course plan for those who wish to complete Mis-

souri certification requirements by taking student teaching at Missouri Southern.

Graduation Requirements

In order to graduate from the Teacher Education Program, the student must successfully complete the following exit requirements, in addition to all other academic requirements of the College:

1. Submit 10 examples of the student's best work in the teacher education program.
2. Pass all minimal competencies required of teacher education students.
3. Pass the Professional Knowledge Test of the National Teachers Exam.
4. Pass the Teaching Specialty Exam of the National Teachers Examination.
5. Successfully complete student teaching.
6. Have a cumulative GPA of 2.75 or higher.
7. Have a cumulative GPA of 2.5 or higher in the teaching specialty area.
8. Have a successful exit interview.

Advisement

Freshmen with declared majors in teacher education will have an adviser assigned as part of Educ 100 Orientation to Education I. Sophomores declaring a major in teacher education will be assigned advisers in Educ 200 Orientation to Education II. It is strongly recommended that all education majors have advisers in their teaching specialty area. This is because of the many specific course requirements and entrance and exit requirements for teacher education.

Post-graduates not holding a Missouri teaching certificate and seeking Missouri certification must be advised in the specialty department of their intended teaching area. These students must meet all departmental requirements for certification.

Post-graduates holding Missouri certificates must have the Missouri State Department of Elementary and Secondary Education (DESE) evaluate their transcripts and make recommendations for course work that will lead to certification. After a plan sheet is received by the student, the requirements specified by DESE may be translated into MSSC courses by the Assistant Certification Officer in the Office of the Dean.

Education

Taylor Hall 232, 625-9309

Faculty Sandrin - Head, Banks, Becker, Joyner, McConnell, Merryman, Overdeer, Pulliam, Ray, Smith, Spencer

Program Objectives

Objectives for all programs in teacher education can be found in the Teacher Education Program Policy Handbook For Faculty and in the Teacher Education Program Policy Handbook For Students. Objectives for the student teaching program can be found in the Policy Handbook For Student Teachers, Cooperating Teachers, and College Supervisors.

General Information

Students who select education as a major may choose to become qualified in elementary education grades 1-6, early childhood education grades preschool-3, special education grades K-12, middle school education grades 5-9, or secondary education. In addition to these areas of study, a student may work toward certification in reading education grades K-12 by completing all of the reading certification requirements except two years of teaching experience. The student who completes this program and completes two years of teaching experience may apply to the Department of Elementary and Secondary Education for the reading certificate.

Students who complete the requirements in early childhood education, special education, and reading education will, upon the completion of their programs, be qualified to teach in elementary grades 1 through 6 as well.

Students who complete the middle school program from an elementary school program will be certified to teach in grades 1 through 6 as well as middle school grades 5-9. Students who complete the middle school program from a secondary school program will be certified to teach in the area of their secondary specialization and in middle school grades 5 through 9. The secondary specializations that may be used for middle school certification are listed below. Other approved secondary teaching specializations may be used as endorsements to these four major areas. Education majors who elect the middle school program (from both elementary and secondary programs) must select their middle school teaching specialty from four major areas:

Language Arts
Mathematics
Science
Social Science

For more specific information see the section on the middle school.

Area of Concentration

Students who elect elementary education grades 1 through 6 as their teaching area must complete an area of concentration consisting of a minimum of 21 hours. This requirement may be met in one of two ways as follows:

Option 1: A collection of 21 hours of approved courses in an area of study such as English, mathematics, science, social studies, music, theatre, etc.

Option 2: A grades 7-9 certification endorsement in an area of study such as English, mathematics, social studies, science, etc. A course of study for grades 7-9 certification is available in the Education office.

Psychology Requirements

Elementary education students grades 1 through 6 and early childhood students grades preschool through 3 must take Psy 100, General Psychology; Psy 300, Child Development; and Psy 310, Educational Psychology.

Middle school students grades 5 through 9, special education students K through 12, music education students grades K through 12 and grades K through 9, art education students grades K through 9 and grades K through 12, physical education students grades K through 12 and grades K through 9, Spanish education students grades K through 12 and reading education students grades K through 12 must take Psy 100, General Psychology; Psy 305, Developmental Psychology; and Psy 310, Educational Psychology.

Secondary education students in biology education, business education, chemistry education, English education, mathematics education, physical education, physics education, social studies must take Psy 100, General Psychology; Psy 301, Adolescent Psychology; and Psy 310, Educational Psychology.

Psy 412, Measurement and Evaluation in Education and Psychology, is a recommended elective for all education students and especially secondary education students.

Minor in Education

An academic minor has been created in teacher education for the B.A. and B.S. student considering a career in education at some future time. This minor is not developed to meet certification requirements, but to provide the students with an adequate background in professional education for career decision making and as a foundation for the remaining certification requirements.

Minor in Education (Elementary and Secondary)

The student must meet admission requirements to the teacher education program. See page 117 for admission requirements.

		Semester Hours
Educ 302	The Exceptional Child	2
Educ 329	Ped Theory, Methods & Practices	4
Educ 321	Microteaching	2
Educ 423	Classroom Management	2
<i>Pass Media Requirements</i>		
Educ 401	Computer Software in the Classroom	2
Educ 402	Foundations of Educ	2
Educ 432	Critical Issues	2
Educ 342	Intro to Dev Reading (3)	
OR		
Educ 422	Reading in the Secondary Schools (2)	3-2
Educ 412	Middle School/Jr Hi Philosophy, Organization and Curriculum	2
		20

Bachelor of Science in Education (B.S.E.)

Students majoring in elementary education, elementary education/special education, physical education, and secondary education and who successfully complete the requirements for this degree will be recommended for the Professional Certificate-I teaching certification. This is a probationary certificate that is granted for three years. Additional certification is granted by the Missouri Department of Elementary and Secondary Education. Recipients of other degrees who wish to be certified in the State of Missouri must meet all of the requirements that are set forth in this catalog for the B.S.E. degree. All of the teacher education programs have been approved by the Missouri State Department of Elementary and Secondary Education and by the National Council for Accreditation of Teacher Education. All programs are designed to exceed minimal requirements for certification.

Bachelor of Science in Education

Elementary Education

Core Requirements (p. 35)

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Exceptions to the Core Requirements: Physical Education Requirements

All teacher education students must meet the Core Curriculum requirements with the exception of elementary education students who have elected a teaching specialization beyond the elementary requirements, e.g., early childhood education, special education, reading education, etc. These students are not required to take HPER 101 Activities and HPER 103 Lifetime Wellness. In the place of these two courses, elementary education students are required to take HPER 370 School Health Education and HPER 311 Physical Education for the Elementary School.

History Requirement

Students in elementary education, early childhood education, middle school education (elementary/middle school) reading education and all special education fields must take Hist 110 United States History from 1492-1877 and Hist 320 United States History 1877 to Present.

Requirements for Elementary Education Core Education Requirements 65-66

HPER 370	School Health	3
Geog 211	Geography	3
Math 120	Math Elem Teacher II	3
Eng 325	Children's Literature	3
Art 220	Art Education	2
Mus 332	Music for Elem School	2
Educ 302	Exceptional Child	2
Psy 100	General Psychology	3

AND

Psy 300	Child Development	3
Psy 310	Educational Psychology	2
HPER 311	PE for the Elem School	2
Educ 401	Computer Software in the Classroom	2

Students must be tentatively admitted to teacher education prior to taking the following courses (see admission requirements):

Educ 329	Ped Theory, Methods & Practices	4
Educ 321	Microteaching	2
Educ 423	Classroom Management	2

Pass Media Competencies

In order to take the remaining courses, the student must be fully admitted to the teacher education program:

Educ 311	Science in the Elementary School	2
Educ 312	Problems of Teaching Arith in Elem School	3
Educ 340	Language Arts	2
Educ 342	Intro Dev Reading	3
Educ 343	Teaching Reading Middle School	3
Educ 470	Diagnostic and Remedial Reading	3

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Professional Semester Courses

Students taking the following courses must have completed their applications for the student teaching experience:

Minimal hours required

Educ 402	Foundations of Educ	2
Educ 432	Critical Issues	2
Educ 322	Teaching Social Studies Elem School	2

Select two from the following:

Educ 412	Middle School, Junior High, Philosophy, Organization and Curriculum	2
Educ 420	Intro Counseling*	3
Psy 412	Measurement & Evaluation	2

Other requirements

Educ 442	Student Teaching	8
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Meet all exit requirements (see graduation requirements).

Area of Concentration 21

*Students must take this course prior to the student teaching semester.

Suggested Order of Study

Bachelor of Science in Education Elementary

Freshman Year

1st Semester

Course	Hours
Educ 100 Orientation to Educ I	1
Psy 100 General Psychology	3
CORE [Eng 101 Comp I]	3
CORE [Math 111 Math Elem Tchrs I]	3
CORE [Econ 180 Amer Econ Sys]	3
Psy 120 College Orientation	1
	14

2nd Semester

CORE	[Math 120 Math Elem Tchrs II]	3
CORE	[Eng 102 Comp II (Eng 101)]	3
CORE	[Comm 100 Oral Comm]*	3
OR		
CORE	[Comm 131 Voice & Diction]*	3
CORE	[Hist 110 U.S. 1492-1877]	3
CORE	[Literature]	3
		15

Sophomore Year

1st Semester

Educ 200	Orientation to Educ II	1
CORE	[Bio 101 General Biology]	4
CORE	[Hist 320 U.S. 1877-present]	3

(To meet state certification requirements the student in all elementary supported fields must take either Music or Art Appreciation as a first choice and then can select from B, Area 2. Humanities and Fine Arts and from C of Area 2 page 35.

CORE	[Art 110 Art Apprec] (3)	
OR		
CORE	[Mus 110 Music Apprec] (3)	3
CORE	[PSc 120 Gov't: U.S./Sta/Local]	3
Psy 300	Child Development	3
		17

2nd Semester

Take C-Base Test. Apply for admission to the Teacher Education Program. If ACT is less than 20, student should retake the ACT.

CORE	Fine Art from Area 2C	3
Soc 110	Intro to Sociology	3
HPER 311	PE in Elem. School***	2
CORE	[Phys 100 Fund of Phys Sci]	5
Mus 332	Music for Elem School	2
Educ 401	Comp Sftwar Clsrm**	2
		17

Junior Year

1st Semester

Pass Media Competencies.

Student must be tentatively admitted to the Teacher Education Program before any course from the junior block forward with an "Educ" prefix can be taken.

Educ 329	Ped Theory Methods & Prac	4
Educ 321	Microteaching	2
Educ 423	Classroom Management	2
Educ 342	Intro to Dev Reading	3
HPER 370	School Health Educ.***	3
Educ 302	The Exceptional Child	2
Psy 310	Educational Psy	2
		18

2nd Semester

Must be fully admitted to the Teacher Education Program. (Media competencies must be met or the student will be denied full admission and denied continuation in the program.)

Area of Concentration	3
Geog 211 Regions and Nations	3
Educ 343 Rdg in the Mid School	3
Educ 340 Language Arts	2
Educ 312 Prob of Tchng Arith	3
	14

Senior Year

1st Semester

Eng 325	Children's Literature	3
Educ 470	Diag & Remdl Reading (may be taken with Educ 343)	3
Art 220	Art Education	2
Educ 311	Tchng Sci Elem	2
		10

2nd Semester

Educ 322	Tchng Soc Stu Elem Sch	2
Educ 402	Foundations of Educ	2
Educ 432	Critical Issues in Educ	2
Select Two	4-5	
Educ 317	Curr in Erly Chldhd**** (3)	
Educ 412	Mid Sch-Jr Hi-Phil-Org-Curr	2
Educ 420	Intro to Counseling+	3
Psy 412	Measurement and Eval	2
Educ 442	Student Teaching	8
		18-19

(Prerequisites)

[Department Recommendations]

*Student must have speech evaluation filed in the Dean's office.

**This is the computer literacy requirement and must be taken by all teacher education students except those students who meet their computer literacy requirement in their teaching specialty.

***Meets the core requirements in Physical Education.

****Is required for all early childhood certification students.

+Must be taken before student teaching.

Bachelor of Science in Education Early Childhood Education Grades Preschool-3

Freshman Year

1st Semester

Course	Hours
Psy 100 General Psychology	3
CORE [Eng 101 Comp I]	3
CORE [Math 111 Math Elem Tchrs I]	3
CORE [Econ 180 Amer Econ Sys]	3
Psy 120 College Orientation	1
Educ 100 Orientation to Educ I	1
	14

2nd Semester

CORE	[Math 120 Math Elem Tchrs II]	3
CORE	[Eng 102 Comp I]	3
CORE	[Comm 100 Oral Comm]*	3
OR		
CORE	[Comm 101 Voice & Diction]*	3
CORE	[Hist 110 U.S. 1492-1865]	3
CORE	[Literature]	3
CORE	[PSc 120 Gov't: U.S./Sta/Local]	3
		18

Sophomore Year

1st Semester

Hist 320	U.S. Hist 1877-present	3
CORE	Bio 101 General Biology	4
CORE	[Mus 110 Music Apprec]	3
CORE	[Art 110 Art Apprec]	3
Geog 211	Regions and Nations	3
Educ 200	Orientation to Educ II	1
		17

2nd Semester

Take the C-Base Test. Apply for admission to the Teacher Education Program. If ACT composite is less than 20, student should retake the ACT.

Art 220	Art Education	2
Educ 401	Computer Software	2
Psy 300	Child Development	3
Soc 110	Intro to Sociology	3
HPER 311	PE in Elem School	3
CORE	[Phys 100 Fund of Phys Sci]	5
		17

Junior Year

1st Semester

Pass media competencies.

Students must be tentatively admitted to the Teacher Education Program before courses with an "Educ" prefix can be taken. (Exceptions: Educ 100, Educ 200, Educ 302 and Educ 401)

Educ 329	Ped Theo Methods & Prac	4
Educ 321	Microteaching	2
Educ 423	Classroom Management	2
Educ 302	Exceptional Child	2
HPER 370	School Health Educ	3
Educ 316	Found,Iss,Trnd ECE*	2
		17

2nd Semester

Students must be fully admitted to the Teacher Education Program.

Educ 342	Intro to Dev Reading	3
Eng 325	Children's Literature	3
Educ 340	Language Arts	2
Educ 312	Prob of Tchng Arith	3
Educ 311	Teaching Science Elem	2
Educ 317	Curriculum - ECE*	3
Educ 323	Util Fm Comm Res*	2
		18

Senior Year

1st Semester		
Educ 343 Tchng Rdg in Mid Sch	3	
Educ 470 Diag & Remedial Rdg (may be taken with Educ 343)	3	
Educ 318 Meth & Materials ECE*	3	
Educ 319 Prac Meth & Mat*	2	
Educ 408 Assess & Prac.*	5	
	16	

2nd Semester

Psy 310 Educational Psychology	2	
Educ 409 Topic in ECE:Lang Devl*	2	
HPER 340 Motor Learning*	3	
Educ 420 Intro to Counseling**	3	
Educ 322 Tchng Soc St Elem	2	
Mus 332 Mus Elem School	2	
	14	

3rd Semester

Educ 402 Foundations of Educ	2	
Educ 432 Critical Issues in Educ	2	
Educ 444 Student Teaching - ECE*	8	
	12	

Total Elementary/ECE Program 143

(Prerequisites)

[Department Recommendations]

*Courses specific to the Early Childhood Area of Emphasis.

Area of Emphasis total semester hours =23.

**Must be taken before student teaching semester.

2nd Semester

Math 120 Math for Elem Teachers II	3	
CORE [Eng 102 Comp II]	3	
CORE [Comm 100 Oral Comm]		
OR		
CORE [Comm 131 Voice & Diction]	3	
CORE [Hist 110 U.S. 1492-1865]	3	
CORE [Literature]	3	
CORE [PSc 120 Gov't: U.S./Sta/Loc]	3	
	18	

Sophomore Year

1st Semester

Hist 320 U.S. Hist 1877-present	3	
CORE Bio 101 General Biology	4	
CORE [Mus 110 Music Apprec]	3	
CORE [Art 110 Art Apprec]	3	
Geog 211 Regions and Nations	3	
Educ 200 Orientation to Educ II	1	
	17	

2nd Semester

Take the C-Base Test. Apply for admission to the Teacher Education Program. If ACT composite is less than 20, student should retake the ACT.

Educ 401 Computer Software	2	
Psy 305 Child Development	4	
Soc 110 Intro to Sociology	3	
HPER 311 PE in Elem School	2	
CORE [Psy 100 Fund of Phys Sci]	5	
	16	

Junior Year

1st Semester

Pass media competencies.

Students must be tentatively admitted to the Teacher Education Program before courses with an "Educ" prefix can be taken. (Exceptions: Educ 100, Educ 200, Educ 302 and Educ 401)

Educ 329 Ped Theo, Methods & Prac	4	
Educ 321 Microteaching	2	
Educ 423 Classroom Management	2	
Educ 302 Exceptional Child	2	
Educ 342 Intro Dev. Reading	3	
HPER 370 School Health Educ	3	
Psy 310 Educational Psychology	2	
	18	

2nd Semester

Students must be fully admitted to the Teacher Education Program.

Educ 474 Educ & Psy Testg*	3	
Mus 332 Mus Elem School	2	
Educ 343 Rdg in the Mid School	3	
Educ 470 Diag & Rmdl Rdg	3	
Educ 340 Language Arts	2	
Educ 312 Problems of Teaching Arith	3	
	16	

Senior Year

1st Semester

Eng 325 Children's Literature	3	
Educ 322 Tchng Soc Stu in Elem Sch	2	
Art 220 Art Education	2	
Educ 311 Teaching Science Elem	2	
Educ 471 Pract in Diag Rdg Diff	3	
Educ 472 Pract in Rem of Rdg	3	
Educ 420 Intro to Counseling*	3	
	18	

2nd Semester

Educ 402 Foundations of Educ	2	
Educ 432 Critical Issues in Educ	2	
Educ 442 Student Teaching	8	
Select one from the following:		
Educ 412 Mid Sch-Jr Hi-Phil-Org-Curr		
Psy 412 Measurement & Eval	2	
	14	

Area of emphasis total semester hours:

Option I = 22

Option II = 32

Reading (Remedial) - Option II

Students must complete all of the above courses as well as the following in order to be certified in Remedial Reading.

Educ 430 Language Development	3	
Educ 350 Corrective Reading	2	
Educ 422 Rdg in Content Area	2	
	7	

In order to be certified in Remedial Reading the applicant must complete two years of teaching experience.

(Prerequisites)

[Department Recommendations]

*Course specific to the area of Reading emphasis.

**Students may opt to enroll in one/two of the six week classes listed under second semester in order to even out semester load.

***Must be taken prior to student teaching semester.

Total hours:

Option I = 130/131

Option II = 140

Bachelor of Science in Education-Elementary Education/Reading Education Grades K-12 Certification

Students who wish to certify in reading education should follow the order of study below. When students complete the sequence of courses satisfactorily, and upon completion of two years of teaching experience, they may certify as reading specialists in the State of Missouri. Advisers should pay particular attention to the sequence of courses. For example, a student must take Educ 342 before taking Educ 343. Educ 343 may be taken with Educ 470.

Suggested Order of Study

Reading (Options I and II)

Freshman Year

1st Semester

Course	Hours	
Psy 100 General Psychology	3	
CORE [Eng 101 Comp I]	3	
CORE [Math 111 Math Elem Tchrs I]	3	
CORE [Econ 180 Amer Econ Sys]	3	
Psy 120 College Orientation	1	
Educ 100 Orientation to Educ I	1	
	14	

Bachelor of Science in Education-Elementary Education/Special Education Grades K-12 Certification

Students who wish to certify in special education may certify in one or all of the following areas of special education:

Learning Disabilities
Mentally Handicapped
Behavior Disordered

Students who pursue these programs must carefully follow the orders of study for these fields.

Beginning with the first semester of the junior year, students may begin taking the required courses in special education. The first course in a sequence of courses that may be taken is Educ 324, Introduction to Special Education, 3 hrs. This courses introduces the three certification areas in special education offered at MSSC. This course must be taken before any of the methods courses in special education can be taken. After this course is successfully completed, the student may take any of the three methods courses. After successfully completing

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a methods course, the student may do the practicum in the same field as the methods course. Students may not take the methods course and the practicum course at the same time. A student may not take the introductory course and a methods course at the same time. Other courses that are required for special education may be taken according to the suggested order of study below for each of the three certification fields.

Student teaching for special education students consists of a full ten week experience in the field chosen by the student. Students who choose to student teach in LD, must meet all course requirements for LD, qualify for admission to student teaching, and then do ten weeks student teaching in LD. Students must have a student teaching experience in each of the fields in which they wish to certify.

Students cannot be assigned to cross categorical classrooms. Students can't be certified to teach in cross categorical classrooms unless they hold certification in each of the categories being taught.

Suggested Order of Study

Bachelor of Science in Education Elementary Education/Special Education: Learning Disabilities Grades K-12 Certification

Freshman Year

1st Semester		Hours
Course		
Psy 100	General Psychology	3
CORE	[Eng 101 Comp I]	3
CORE	[Math 111 Math Elem Tchrs I]	3
CORE	[Econ 180 Amer Econ Sys]	3
Psy 120	College Orientation	1
Educ 100	Orientation to Educ I	1
		14

2nd Semester

Math 120	Math Elem Teachers II	3
CORE	[Eng 102 Comp II]	3
CORE	[Comm 100 Oral Comm]	3
OR		
CORE	[Comm 131 Voice & Diction]	3
CORE	[Hist 110 U.S. 1492-1865]	3
CORE	[Literature]	3
CORE	[PSc 120 Govt: U.S./Sta/Loc]	3
		18

Sophomore Year

1st Semester		Hours
Hist 320	U.S. Hist 1865-present	3
CORE	[Bio 101 General Biology]	4
CORE	[Mus 110 Music Apprec]	3
CORE	[Art 110 Art Apprec]	3
Psy 305	Developmental Psy	4
Educ 200	Orientation to Educ II	1
		18

2nd Semester

Take the C-Base test. Apply for admission to the Teacher Education Program. If ACT composite is less than 20, students should retake the ACT.

Educ 401	Computer Software	2
Geog 211	Regions & Nations	3
Soc 110	Intro to Sociology	3
HPER 311	PE in Elem Sch	2
CORE	[Psy 100 Fund of Phys Sci]	5
Mus 332	Music for Elem School	2
Educ 302	Exceptional Child	2
		19

Junior Year

1st Semester

Pass media competencies.

Students must be tentatively admitted to the Teacher Education Program before courses with an "Educ" prefix can be taken. [(Exceptions: Educ 100, Educ 200, Educ 302 and Educ 401)]

Educ 329	Ped Theo Methods & Prac	4
Educ 321	Microteaching	2
Educ 423	Classroom Management	2
Art 220	Art Education	2
HPER 370	School Health Educ	3
Psy 310	Education Psy	2
Educ 324	Intro SpEd (MH,LD,BD)*	3
		18

2nd Semester

Students must be fully admitted to the Teacher Education Program.

Educ 474	Educ & Psy Testg SpEd*	3
Educ 342	Intro to Dev Rdg	3
Eng 325	Children's Literature	3
Educ 340	Language Arts	2
Educ 312	Problems of Tchg Arith	3
Educ 311	Tchg Sci Elem	2
Educ 404	Methods for Tchg LD*	3
		19

Senior Year

1st Semester

Educ 446	Pract. for LD*	3
Educ 343	Teaching Reading in Mid Sch	3
Educ 470	Diag & Remedial Rdg	3
Educ 407	Diag & Prscrptv Tchg.*	3
Educ 430	Lang Dev Except Child*	3
Educ 420	Intro to Counseling**	3
		18

2nd Semester

Educ 402	Foundations of Educ	2
Educ 432	Critical Issues in Educ	2
Educ 322	Tchg Soci Stu in Elem Sch	2
Educ 412	Mid Sch-Jr Hi-Phil-Org-Curr (2)	2
OR		
Psy 412	Measurement & Eval (2)	2
Educ 444	Student Teaching LD	8
		16

Total Hours BSE LD Emphasis = 140

(Prerequisites)

[Department Recommendations]

*Courses specific to the LD area of emphasis.

Area emphasis total semester hours = 29

**Must be taken before student teaching semester.

Bachelor of Science in Education Elementary Education/Special Education: Mentally Handicapped Grades K-12 Certification

Freshman Year

1st Semester

Course		Hours
Psy 100	General Psychology	3
CORE	[Eng 101 Comp I]	3
CORE	[Math 111 Math Elem Tchrs]	3
CORE	[Econ 180 Amer Econ Sys]	3
Psy 120	College Orientation	1
Educ 100	Orient to Educ I	1
		14

2nd Semester

Math 120	Math for Elem Tchrs	3
CORE	[Eng 102 Comp I (Eng 101)]	3
CORE	[Comm 100 Oral Comm]	3
CORE	[Hist 110 U.S. 1492-1865]	3
CORE	[Literature]	3
CORE	[PSc 120 Gov't: U.S./Sta/Loc]	3
		18

Sophomore Year

1st Semester

Hist 320	U.S. Hist 1865-present	3
CORE	[Bio 101 General Biology]	4
CORE	[Mus 110 Music Apprec]	3
CORE	[Art 110 Art Apprec]	3
Psy 305	Developmental Psy	4
Educ 200	Orientation to Educ II	1
		18

2nd Semester

Take the C-Base test. Apply for admission to the Teacher Education Program. If ACT composite is less than 20, students should retake the ACT.

Educ 302	Exceptional Child	2
Educ 401	Computer Software	2
Geog 211	Regions & Nations	3
Soc 110	Intro to Sociology	3
HPER 311	PE in Elem School	2
CORE	[Psy 100 Fund of Phys Sci]	5
Mus 332	Music for Elem School	2
		19

Junior Year

1st Semester

Pass media competencies.

Students must be tentatively admitted to the Teacher Education Program before courses with an "Educ" prefix can be taken. (Exceptions: Educ 100, Educ 200, Educ 302 and Educ 401)

Educ 329	Ped Theory, Meth & Prac	4
Educ 321	Microteaching	2
Educ 423	Classroom Management	2
Art 220	Art Education	2
HPER 370	School Health Educ	3
Psy 310	Educational Psychology	2
Educ 324	Intro Sp Ed (MH,LD,BD)*	3
		18

2nd Semester

Students must be fully admitted to the Teacher Education Program.

Educ 474	Educ & Psy Testg SpEd*	3
Educ 342	Intro to Dev Reading	3
Eng 325	Children's Literature	3
Educ 340	Language Arts	2
Educ 312	Problems of Tchg Arit	3
Educ 311	Science Elem School	2
Educ 403	Methods for Tchg MH*	3
		19

Senior Year

1st Semester		
Educ 446	Prac for MH*	3
Educ 343	Tching Rding in Mid Sch	3
Educ 470	Diag & Remedial Rdg	3
Educ 407	Diag & Prscrptv Tchg.*	3
Educ 430	Lang Dev. Except Child*	3
Educ 420	Intro to Counseling**	3
		18

2nd Semester

Educ 402	Foundations of Educ	2
Educ 432	Critical Issues in Educ	2
Educ 322	Tchg Soc Stu in Elem Sch	2
Educ 412	Mid Sch-Jr Hi-Phil-Org-Curr OR	
Psy 412	Measurement & Eval	2
Educ 444	Student Teaching BD*	8
		16

Total Hours BSE MH Emphasis = 140

(Prerequisites)

[Department Recommendations]

*Courses specific to the MH area of emphasis.

Area of emphasis total semester hours = 29.

**Must be taken before student teaching semester.

**Bachelor of Science in Education
Elementary Education/ Special
Education Behavior Disordered****Freshman Year**

1st Semester		
Course		Hours
Psy 100	General Psychology	3
CORE	[Eng 101 Comp I]	3
CORE	[Math 111 Math for Elem Tchrs]	3
CORE	[Econ 180 Amer Econ Sys]	3
Psy 120	College Orientation	1
Educ 100	Orient to Educ I	1
		14

2nd Semester

Math 120	Math for Elem Tchrs	3
CORE	[Eng 102 Comp II (Eng 101)]	3
CORE	[Comm 100 Oral Comm]	3
CORE	[Hist 110 U.S. Hist 1492-1865]	3
CORE	[Literature Elective]	3
CORE	[PSc 120 Gov't: U.S./Sta/Loc]	3
		18

Sophomore Year

1st Semester		
Hist 320	U.S. Hist 1865-Present	3
CORE	[Bio 101 General Biology]	4
CORE	[Mus 110 Music Apprec]	3
CORE	[Art 110 Art Apprec]	3
Psy 305	Developmental Psy	4
Educ 200	Orientation to Educ II	1
		18

2nd Semester*Pass C-Base test.**Apply for tentative admission to teacher education.*

Educ 302	Exceptional Child	2
Educ 401	Computer Software	2
Geog 211	Regions & Nations	3
Soc 110	Sociology	3
HPER 311	PE Elem School	2
CORE	[Psy 100 Fund of Phys Sci]	5
Mus 332	Music for Elem School	2
		19

Junior Year**1st Semester***Pass media competencies.
Qualify for full admission to Teacher
Education Program.*

Educ 329	Ped Thry, Mthds & Prac	4
Educ 321	Microteaching	2
Educ 423	Classroom Management	2
Art 220	Art Education	2
HPER 370	School Health	3
Psy 310	Educational Psy	2
Educ 324	Intro Sped (MH,LD,BD)*	3
		20

2nd Semester

Educ 474	Educ & Psy Testng SpEd*	3
Educ 342	Intro Dev Reading	3
Eng 325	Children's Literature	3
Educ 340	Lang Arts Elem	2
Educ 312	Problms Tchg Arith	3
Educ 311	Science Elem School	2
Educ 405	Mthds for Tchg BD*	3
		19

Senior Year**1st Semester**

Educ 446	Prac for BD	3
Educ 343	Readg Mid Schl	3
Educ 470	Diag & Rmdl Rdg.	3
Educ 420	Intro Counseling**	3
Educ 407	Diag & Prscrptv Tch*	3
Educ 430	Lang Dev Except Child*	3
		18

2nd Semester

Educ 402	Foundations of Educ	2
Educ 432	Critical Issues	2
Educ 322	Tchg Soc Stds Elem	2
Educ 412	Mid Sch-Jr H-Phil-Org-Curr OR	
Psy 412	Measurement & Eval	2
Educ 444	Std Tch BD (10 wks)*	8
		16

Total Hours BSE BD Emphasis = 140

(Prerequisites)

[Department Recommendations]

*Courses specific to the BD area of emphasis.

Area of emphasis total semester hours = 29

**Must be taken before student teaching semester.

**Bachelor of Science in
Education - Elementary
Education/Middle School
Grades 5-9 Certification**

Students wishing to teach in the middle school grades 5 through 9 and who are pursuing elementary school certification grades 1-6 must select a major area from four prescribed areas for their teaching specialty as follows: language arts, science, social studies, and mathematics. Certification for middle school will be granted by using one of the following three options:

1. A teacher may be granted certification in two of the four major areas with a minimum of 21 semester hours in each area or a total of 42 semester hours.

2. A teacher may be granted certification in one major area and one endorsement area with a minimum of 42 semester hours.
3. A teacher may be granted certification in one of the four major areas with a minimum of 30 semester in the subject area. Endorsement to one of these major areas include speech 5-9 and drama 5-9.

Students who wish to endorse in these areas must obtain a program of study in these areas from the Dean of the School of Education. Other endorsements that may be utilized at the middle school level are the following: art K-9, Spanish K-9, health K-9, physical education K-9, and music K-9.

A suggested order of study is recommended for each of the major areas below. It is essential for a student to take all of the courses in the suggested order of study for the major area that is chosen for a teaching area. Students selecting options one or two above must seek advisement for these two options by a middle school adviser in the education department.

Suggested Order of Study**Bachelor of Science in Education
Elementary/Middle School
Grades 5-9 -Language Arts****Freshman Year**

1st Semester		
Course		Hours
Educ 100	Orient to Educ I	1
Psy 100	General Psychology	3
CORE	[Eng 101 Comp I]	3
CORE	[Math 111 Math Elem Tchrs I]	3
CORE	[Econ 180 Amer Econ Sys]	3
Psy 120	College Orientation	1
		14

2nd Semester

Math 120	Math for Elem Tchrs II	3
CORE	[Eng 102 Comp II (Eng 101)]	3
CORE	[Comm 100 Oral Comm]	3
Hist 110	U.S. History 1492-1877	3
Eng 281/282	American Literature	3
Art 220	Art Education	2
		17

Sophomore Year

1st Semester		
Educ 200	Orientation to Educ II	1
CORE	[Bio 101 General Biology]	4
Hist 320	U.S. History 1877-present	3
CORE	[Art 110 Art Apprec] (3)	3
OR		
CORE	[Mus 110 Music Apprec] (3)	3
CORE	[PSc 120 Gov't: U.S./Sta/Loc]	3
Eng 271/272	English Literature	3
		17

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2nd Semester

Take C-Base test. Apply for admission to the Teacher Education Program. If ACT is less than 20, the student should retake the ACT.

Psy 305	Developmental Psych	4
Mus 322	Music Elem Schl	2
Soc 110	Intro to Sociology	3
HPER 311	Phys Educ in Elem Sch	2
Phys 100	Fund of Phys Science	5
Educ 401	Computer Software	2
		18

Junior Year

1st Semester

Pass media competencies.

Student must be tentatively admitted to the Teacher Education Program prior to taking the junior block and all subsequent courses prefixed with Educ.

Educ 329	Ped Theo Methds, & Prac	4
Educ 321	Microteaching	2
Educ 423	Classroom Management	2
HPER 370	Sch Health Education	3
Educ 302	The Exceptional Child	2
Eng 319	Composition for Teachers	3
Psy 310	Educational Psychology	2
		18

2nd Semester

Eng 281/282	American Literature	3
Eng 301	Modern Grammar	3
Geog 211	Regions and Nations	3
Educ 340	Language Arts	2
Educ 342	Intro to Develptl Rdg	3
Educ 312	Pblms in Tchng Arith	3
Educ 311	Science in Elem School	2
		19

Senior Year

1st Semester

Apply for student teaching.

Eng 325	Children's Literature	3
Educ 343	Tchg Rdg Middle School	3
Educ 470	Diag and Rmdl Rdg	3
Eng 400	Hist of the Eng. Lang.	3
Eng 271/272	English Literature	3
Educ 422	Rdg Secondary Schools	2
Educ 412	Mid Sch-Jr Hi-Phil-Org-Cur	2
		19

2nd Semester

Educ 332	Tchg Eng Lang Arts Scd	2
Educ 402	Foundations of Educ	2
Educ 432	Critical Issues	2
Educ 322	Soc Studies Elem Schl	2
Educ 420	Intro to Counseling* (3)	
OR		
Psy 412	Meas & Eval Educ\Psy (2)	3-2
Educ 442	Student Tchg Mid School	8
		18-19

(Prerequisites)

[Department Recommendations]

*Must be taken before student teaching semester.

Bachelor of Science in Education Elementary/Middle School Grades 5-9 - Science

Freshman Year

1st Semester

Course		Hours
Educ 100	Orientation to Educ I	1
Psy 100	General Psychology	3
CORE	[Eng 101 Comp I]	3
CORE	[Math 111 Math Elem Tchrs I]	3
CORE	[Econ 180 Amer Econ Sys]	3
Psy 120	College Orientation	1
		14

2nd Semester

Math 120	Math for Elem Tchrs II	3
CORE	[Eng 102 Comp II (Eng 101)]	3
CORE	[Comm 100 Oral Comm]	3
Hist 110	U.S. History 1492-1877	
CORE	[Chem 100 Intro Chem]	5
		17

Sophomore Year

1st Semester

Educ 200	Orientation to Educ II	1
CORE	[Bio 101 General Biology]	4
Hist 320	U.S. History 1877-present	3
CORE	[Art 110 Art Apprec] (3)	
OR		
CORE	[Mus 110 Music Apprec] (3)	3
CORE	[PSc 120 Gov't: U.S./Sta/Loc]	3
CORE	[Select from Area 2B or 2C]	3
		17

2nd Semester

Take C-Base test. Apply for admission to the Teacher Education Program. If ACT is less than 20, student should retake the ACT.

Psy 305	Developmental Psych	4
Mus 322	Music Elem Schl	2
Soc 110	Intro to Sociology	3
HPER 311	PE in Elem Schl	2
Phys 100	Fund of Phys Science	5
Educ 401	Computer Software	2
		18

Junior Year

1st Semester

Pass media competencies.

Student must be tentatively admitted to the Teacher Education Program prior to taking the junior block and all subsequent courses prefixed with Educ.

Educ 329	Ped Theo Methds & Prac	4
Educ 321	Microteaching	2
Educ 423	Classroom Management	2
HPER 370	Sch Health Education	3
Educ 302	The Exceptional Child	2
Bio 312	Envirmtl Biology	4
Psy 310	Educational Psychology	2
		18

Summer Semester

Phys 120	Physics for Teachers	4
Educ 422	Rdg Secondary Schools	2
		6

2nd Semester

Geol 110	Intro to Geology	5
Geog 211	Regions & Nations	3
Educ 340	Language Arts	2
Educ 342	Intro to Develmntl Rdg	3
Educ 312	Prob in Tchng Arith	3
Art 220	Art Education	2
		18

Senior Year

1st Semester

Apply for student teaching.

Eng 325	Children's Literature	3
Phys 180	Intro to Meterology	3
Educ 343	Tchg Rdg Middle School	3
Educ 470	Diag & Remedial Rdg	3
Educ 412	Mid Sch-Jr Hi-Phil-Org-Curr	2
Educ 311	Science in Elem School	2
CORE	[Literature]	3
		19

2nd Semester

Educ 333	Tchg Science Secondary	2
Educ 402	Foundations of Educ	2
Educ 432	Critical Issues	2
Educ 322	Soc Studies Elem Sch	2
Educ 420	Intro to Counseling* (3)	
OR		
Psy 412	Meas & Eval Educ\Psy (2)	3-2
Educ 442	Student Tchg Midl School	8
		18-19

(Prerequisites)

[Department Recommendations]

*Must be taken before student teaching semester.

Bachelor of Science in Education Elementary/Middle School Grades 5-9 Mathematics

Freshman Year

1st Semester

Course		Hours
Educ 100	Orientation to Educ I	1
Psy 100	General Psychology	3
CORE	[Eng 101 Comp I]	3
CORE	[Math 150 Calculus w/Analyt]	5
CORE	[Econ 180 Amer Econ Sys]	3
Psy 120	College Orientation	1
		16

2nd Semester

Math 250	Calculus with Analyt	5
CORE	[Eng 102 Comp I (Eng 101)]	3
CORE	[Comm 100 Oral Comm]	3
Hist 110	U.S. History 1492-1877	3
CORE	[Comp 120 Fortran]	3
		17

Sophomore Year

1st Semester

Educ 200	Orientation to Educ II	1
CORE	[Bio 101 General Biology]	4
Hist 320	U.S. History 1877-present	3
CORE	[Art 110 Art Apprec] (3)	
OR		
CORE	[Mus 110 Music Apprec] (3)	3
CORE	[PSc 120 Gov't: U.S./Sta/Loc]	3
CORE	[Select from Area 2B or 2C]	3
		17

2nd Semester

Take C-Base test. Apply for admission to the Teacher Education Program. If ACT is less than 20, student should retake the ACT.

Psy 305	Developmental Psych	4
Mus 322	Music Elem Schl	2
Soc 110	Intro to Sociology	3
HPER 311	Phys Educ in Elem Schl	2
CORE	[Phys 100 Fund of Phys Sci]	5
Educ 401	Computer Software	2
		18

Junior Year**1st Semester**

Pass media competencies.

Student must be tentatively admitted to the Teacher Education Program prior to taking the junior block and all subsequent courses prefixed with Educ.

Educ 329	Ped Theory, Methods, & Prac	4
Educ 321	Microteaching	2
Educ 423	Classroom Management	2
HPER 370	School Health Educ	3
Educ 302	The Exceptional Child	2
Psy 310	Educational Psychology	2
Math 260	Calculus with Analyt	5
		20

2nd Semester

Math 310	Elementary Statistics (3)	
OR		
Math 361	Intro to Probability (3)	3
Geog 211	Regions & Nations	3
Educ 340	Language Arts	2
Educ 342	Intro to Develptl Rdg	3
Educ 312	Prob in Tchng Arith	3
Art 220	Art Education	2
		19

Senior Year**1st Semester**

Apply for student teaching.

Math 300	Fund of Math Tho	3
Eng 325	Children's Literature	3
Educ 343	Tchg Rdg Middle School	3
Educ 470	Diag & Remedial Rdg	3
Educ 422	Rdg Secondary Schools	2
Educ 412	Mid Sch-Jr Hi-Phil-Org-Curr	2
Educ 311	Science in Elem School	2
		18

2nd Semester

Educ 339	Teaching Math Scdry	2
Educ 402	Foundations of Educ	2
Educ 422	Rdg Secondary Schools	2
Educ 432	Critical Issues	2
Educ 322	Soc Studies Elem Sch	2
Educ 420	Intro to Counseling* (3)	
OR		
Psy 412	Meas & Eval Educ\Psy (2)	3-2
Educ 442	Stu Tchng Mid Sch	18
		20-21

(Prerequisites)

[Department Recommendations]

*Must be taken before student teaching semester.

Bachelor of Science in Education Elementary/Middle School Grades 5-9 - Social Studies

Freshman Year**1st Semester**

Course		Hours
Educ 100	Orientation to Educ I	1
Psy 100	General Psychology	3
CORE	[Eng 101 Comp I]	3
CORE	[Math 111 Math Elem Tchrs I]	3
CORE	[Econ 180 Amer Econ Sys]	3
Psy 120	College Orientation	1
		14

2nd Semester

Math 120	Math Elem Tchrs II	3
CORE	[Eng 102 Comp II] (Eng 101)	3
CORE	[Comm 100 Oral Comm]	3
CORE	[Hist 110 U.S. 1492-1877]	3
Hist	Elective East Asian History	3
Art 220	Art Education	2
		17

Sophomore Year**1st Semester**

Educ 200	Orientation to Educ II	1
CORE	[Bio 101 General Biology]	4
Hist 320	U.S. History 1877-present	3
CORE	[Art 110 Art Apprec] (3)	
OR		
CORE	[Mus 110 Music Apprec] (3)	3
CORE	[PSc 120 Gov't: U.S./Sta/Loc]	3
CORE	[Select from Area 2B or 2C]	3
		17

2nd Semester

Take C-Base test. Apply for admission to the Teacher Education Program. If ACT is less than 20, student should retake the ACT.

Psy 305	Developmental Psych	4
Mus 322	Music Elem Schl	2
CORE	[Soc 110 Intro to Sociology]	3
HPER 311	PE in Elem Sch	2
CORE	[Phys 100 Fund of Phys Sci]	5
Educ 401	Computer Software	2
		18

Junior Year**1st Semester**

Pass media competencies.

Student must be tentatively admitted to the Teacher Education Program prior to taking the junior block and all subsequent courses prefixed with Educ.

Educ 329	Ped Theory, Methods, & Prac	4
Educ 321	Microteaching	2
Educ 423	Classroom Management	2
HPER 370	School Health Educ	3
Educ 302	The Exceptional Child	2
Psy 310	Educational Psychology	2
Hist 130	Western Civilization	3
		18

2nd Semester

Hist 140	Western Civilization	3
Geog 211	Regions & Nations	3
Educ 340	Language Arts	2
Educ 342	Intro to Develptl Rdg	3
Educ 312	Prob in Tchng Arith	3
Educ 311	Science in Elem School	2
		16

Senior Year**1st Semester**

Apply for student teaching.

Hist	Elective American History	3
Eng 325	Children's Literature	3
Educ 343	Tchg Rdg Middle School	3
Educ 470	Diag & Remedial Rdg	3
Educ 422	Rdg Secondary Schools	2
Educ 412	Mid Sch-Jr Hi-Phil-Org-Curr	2
CORE	[Literature Elective]	3
		19

2nd Semester

Educ 334	Tchg Soc Stu Sec School	2
Educ 402	Foundations of Educ	2
Educ 432	Critical Issues	2
Educ 322	Soc Studies Elem Schl	2
Educ 420	Intro to Counseling* (3)	
OR		
Psy 412	Meas & Eval Educ\Psy (2)	3-2
Educ 442	Student Tchng Mid School	8
		18-19

(Prerequisites)

[Department Recommendations]

*Must be taken before student teaching semester.

Bachelor of Science in Secondary Education/Middle School-Teaching Specialty

Secondary education students who seek middle school certification may use their teaching specialty in secondary education if the teaching specialty is one of the four major areas of middle school certification, i.e., language arts, science, mathematics or social studies. If the student's specialty is not one of the four areas, the student will have to satisfy the course requirements in one of these four areas. Endorsement to one of these major areas includes the following: agriculture 5-9, home economics 5-9, industrial arts/industrial technology 5-9, speech 5-9, and drama 5-9. Students who wish to endorse in these areas must obtain a program of study in these areas from the Dean of the School of Education. Other endorsements that may be utilized at the middle school level are the following: art K-9, Spanish K-9, health K-9, physical education K-9, and music K-9. The suggested order of study below does not include the specialization area. If the student has a specialty in one of the four major areas, he or she can supply the specialty course from their specialty teaching area. Students who wish to create a teaching area in the middle school must obtain a program of study from the Dean of the School of Education.

Suggested Order of Study

Bachelor of Science in Education Secondary/Middle School Teaching Specialty

Freshman Year

1st Semester		Hours
Course		
Educ 100	Orientation to Educ I	1
Psy 100	General Psychology	3
CORE	[Eng 101 Comp I]	3
CORE	[Math 110 Intro to Coll Math] (or math course appropriate to area of study)	3
CORE	[Econ 180 Amer Econ Sys]	3
Psy 120	College Orientation	1
CORE	[HPER 103 Lifetime Wellness]	2
		16

2nd Semester

Course	appropriate to teaching area	6
CORE	[Eng 102 Comp II (Eng 101)]	3
CORE	[Comm 100 Oral Comm]	3
Hist 110	U.S. History 1492-1877	3
CORE	[Select from Area 2B or 2C]	3
		18

Sophomore Year

1st Semester		
Educ 200	Orientation to Educ II	1
CORE	[Bio 101 General Biology]	4
Hist 320	U.S. History 1877-present	3
CORE	[Select from Area 2A]	3
CORE	[PSc 120 Gov't: U.S./Sta/Loc]	3
CORE	[Select from Area 2B or 2C]	3
		17

2nd Semester

Take C-Base test. Apply for admission to the Teacher Education Program. If ACT is less than 20, student should retake the ACT.

Psy 305	Developmental Psych	4
Course	appropriate to tchg area	6
CORE	[HPER 101 Physical Activity]	1
CORE	[Phys 100 Fund of Phys Sci]	5
Educ 401	Computer Software	2
		18

Junior Year

1st Semester

Pass media competencies

Student must be tentatively admitted to the Teacher Education Program prior to taking the junior block and all subsequent courses prefixed with Educ.

Educ 329	Ped Theo Meth & Prac	4
Educ 321	Microteaching	2
Educ 423	Classroom Management	2
Educ 302	The Exceptional Child	2
Courses	appropriate to tchg area	6
Psy 310	Educational Psychology	2
		18

2nd Semester

Educ 342	Intro to Dev Reading	3
Courses	appropriate to tchg area	15
		18

Senior Year

1st Semester

Apply for student teaching

Educ 343	Tchg Rdg Middle School	3
Educ 422	Rdg Secondary Schools	2
Course	appropriate to tchg area	14
		19

2nd Semester

Educ	Specialty Methods Course	2
Educ 402	Foundations of Educ	2
Educ 432	Critical Issues	2
Educ 412	Mid Sch-Jr Hi-Phil-Org-Curr	2
Educ 420	Intro to Counseling* (3)	
OR		
Psy 412	Meas & Eval Educ\Psy (2)	3-2
Educ 442	Student Tchg Mid School	8
		18-19

Total hours for BSE in Secondary/Middle School Education 142-143

(Prerequisites)

[Department Recommendations]

*Must be taken before the student teaching semester.

Bachelor of Science in Education - Secondary Education

The curriculum for secondary education is a joint effort of each department supporting a teaching specialty area and the education department. Program development, program changes and program evaluations for secondary education are done by the Secondary Education Committee which is part of the teacher education governance structure. The work of this committee is further implemented and reviewed by the Teacher Education Council and the education department, which is the governing unit in teacher education. Departments having a teaching specialty submit recommendations regarding specialty programs to the Secondary Education Committee. These recommendations represent the department's adherence to guidelines of learned societies, Missouri DESE guidelines, guidelines from accrediting bodies and from research and accepted practices that make up the knowledge base for secondary programs.

The student who desires to teach in a secondary school may choose to become qualified in a single teaching field with a high degree of specialization or in two different teaching fields with a lesser degree of specialization. Specialties available for secondary school teaching are:

1. Art K-12, K-9
2. Biology 7-12
3. Chemistry 7-12
4. Business Education 7-12
5. English 7-12
6. Mathematics 7-12
7. Music K-12, K-9 (Vocal or Instrumental)

8. Physical Education K-12, K-9, 7-12

9. Physics 7-12

10. Social Studies 7-12

11. Spanish K-12

12. Speech & Theatre 7-12

Along with a teaching specialty, a student may elect a supporting area (a minor) from any one of the above listed teaching specialties.

Plan A: (Double Major)

Plan A is intended for those who desire to qualify as teachers in two different subject matter areas. Each area requires a minimum of 30 semester hours of specific course work which must meet minimum Missouri State Department of Elementary and Secondary Education requirements. Plan A is not available in social science, music, art, Spanish or in programs preparing teachers for both elementary and secondary education. If Plan A is selected, the second teaching field is required. Students may select an adviser in either department chosen as a major or from the department of education.

Plan B: (Single Teaching Field, Comprehensive Major)

Plan B is intended for persons who wish to concentrate teacher preparation in one subject matter area only. Forty or more semester hours are required in the subject matter area or related supporting courses listed in this catalog by department.

Students choosing a single teaching field also may qualify for certification in a second teaching field for grades 7-9 by taking specified courses in the second teaching field. Those interested in certification in a second teaching field for grades 7-9 should see the Dean of the School of Education and Psychology for course requirements.

The Teaching Specialty for Secondary Education

Secondary education students study a teaching specialty in one of the following fields (Plan B) or two of the following fields (Plan A):

- art education K-12, K-9
- biology education 7-12
- business education 7-12
- chemistry education 7-12
- English education 7-12
- mathematics education 7-12
- music education K-12, K-9

physical education K-12, K-9, 7-12
 physics education 7-12
 social studies education 7-12
 Spanish education K-12
 speech and theatre education 7-12

Students in secondary education must meet the same core requirements as all MSSC students. Depending on the teaching specialty, these students will differ in the order in which they take the Core Curriculum requirements. Each specialty area has a sequence of course requirements that may extend from the first semester of the first year to the first semester of the fourth year.

All students in teacher education must be tentatively admitted to teacher education prior to taking professional education courses. The admission point for teacher education is in the second semester of the sophomore year.

Preparation for admission by the student can begin at any time. The student's ACT score can be entered into the data base. If the ACT score is lower than 20, the test can be retaken anytime prior to applying for tentative admission.

The C-Base should be taken the first semester of the sophomore year.

All students who enter Southern as freshmen are encouraged to take Educ 100, Orientation to Education I during their freshman year and Educ 200, Orientation to Education II during their sophomore year. Secondary students who transfer into MSSC at the admission point into the Teacher Education Program are not required to take these two courses.

For specific content courses for the teaching specialty, students should refer to the catalog.

Suggested Order of Study

Bachelor of Science in Education Secondary/Teaching Specialization

Freshman Year

1st Semester

Follow teaching specialty department recommendations for core courses and teaching specialty courses.

Course	Hours
Educ 100 Orient to Education I	1
Psy 100 General Psychology	3

2nd Semester

Follow teaching specialty department recommendations for core courses and teaching specialty courses.

Sophomore Year

1st Semester

Follow teaching specialty department recommendations for core courses and teaching specialty courses.

Educ 200 Orient to Education II 1

2nd Semester

Follow teaching specialty department recommendations for core courses and teaching specialty courses.

Educ 401 Computer Software 2

Psy 301 Adolescent Psychology (3)

OR

Psy 305 Developmental Psychology* (4) 3-4

Pass C-Base test for admission.

Verify that ACT score is 20+, Have a 2.5 GPA in the teaching specialty area and a 2.75 cumulative GPA. (This requirement began with the 1991-93 catalog and continues with the 1993-95 catalog.) Get faculty recommendation, write autobiography, and file admission papers for tentative admission.

Junior Year

1st Semester

Pass media competencies.

Educ 329 Ped Thry, Mthds & Prac 4

Educ 321 Microteaching 2

Educ 423 Classroom Management 2

Educ 302 Exceptional Child 2

Psy 310 Educational Psychology 2

Follow departmental recommendations for teaching specialty courses. If recommended by Junior Block instructors and by the teacher education faculty, receive full admission to teacher education.

2nd Semester

Follow departmental recommendations for teaching specialty courses.

Senior Year

1st Semester

Follow departmental recommendations for teaching specialty courses.

Apply for student teaching.

Educ 420 Intro to Counseling* 3

2nd Semester

Educ 402 Foundations of Education 2

Educ 432 Critical Issues 2

Educ Tchng Specialty Meth Course 2

Educ 422 Teaching Reading Secondary 2

Educ 462 Student Teaching Secondary 8

Select one: 2-3

Educ 412 Mid Sch-Jr Hi-Sch Org -Curr** (2)

Psy 412 Test and Measurements (2)

Educ 420 Intro to Counseling*** (3)

(see senior year first semester)

(Prerequisites)

[Department Recommendations]

*Psy 305 required for all K-12, K-9 and 5-9 programs.

** Required for all middle school teaching specialty students.

***Must be taken before student teaching.

For additional information contact:

Education Department

Office: Taylor Hall 237

Phone: 625-9308

Health, Physical Education and Recreation

Robert E. Young Gymnasium 212,
 625-9316

Faculty Nelson - Head, Ballard, Beard, Cade, Conklin, Cooke, Corn, Evans, Frazier, Hernandez, Hobbs, Lantz, Lipira, Oldham, Rutledge, Scheible, Traywick, Turner, Wilson

Students who desire certification as a teacher of physical education may choose to become qualified at either the elementary level, the secondary level or a combination of both. Students planning to major in this field should refer to page 116 where the teacher education program is described. Students planning to teach at both elementary and secondary levels should select the K-12 plan. Those desiring to make physical education one of two teaching fields should prepare under either the K-9 plan or the 7-12 plan. The student will consult the specific department concerned for the requirements of the second teaching field.

Objectives for Physical Education, Grades K-12

The Physical Education curriculum reflects guidelines from the American Alliance for Health, Physical Education, Recreation and Dance, Missouri DESE guideline, accrediting organizations and requirements from the School of Education and Psychology at Missouri Southern State College.

The faculty of the department of HPER have adopted the following objectives for all Physical Education majors. The student will:

1. have a strong background in the Missouri Southern State College Core Curriculum and can use the knowledge, skills, and theories therein to become a more effective physical educator;
2. trace the history and philosophy of physical education of the United States and other countries and understand the impact that these have had and may have on present and future physical education theory.
3. understand human motion from the stand points of functional anatomy, physiology, physics and mathematics, and apply these principles to improve the mechanical efficiency of human movement.

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4. demonstrate the skills and knowledge required to construct, analyze and administer instruments of measurement and evaluation commonly utilized in physical education for the cognitive, affective and psychomotor domains.	15. understand the changes in motor behavior over the lifespan, the processes that underlie these changes and the factors that affect and are affected by them, and to use this knowledge to improve the total well being of the child (K-12, K-9).	HPER 321 Theory & Analysis of Selected Team Sports*	3
5. demonstrate knowledge of the sociological aspects of physical activity including cultural, ethnic, and gender differences related to selection and involvement in activities.	16. demonstrate the ability to develop lessons, units of instruction that parallel stated objectives, to organize classes for effective management, and understand how the physical education curriculum interrelates with the total school program.	HPER 332 Rhythmic Form & Analysis*	2
6. demonstrate knowledge of the psychological aspects of physical activities including motivation and participation, anxiety and stress, and factors promoting or inhibiting aggressive behavior.	17. demonstrate knowledge in the principles of planning, implementing, evaluating, identifying high risk areas and sound practices of safety and supervision related to the physical education curriculum.	HPER 335 History & Philosophy of Physical Ed*	2
7. understand human physiology, the physiological effects of exercise and the application of these scientific principles for the improvement of human performance.	18. demonstrate the ability to adapt physical activities to accommodate needs of special students.	HPER 340 Motor Learning in Physical Ed*	3
8. demonstrate knowledge of growth and development, scope and sequence, appropriate teaching techniques, and class organization and management applicable for the elementary physical education program (K-12, K-9).	19. present detailed technical knowledge and rules relative to activities that are desirable in the physical education program.	HPER 342 Kinesiological Approach to Movement*	3
9. demonstrate knowledge of growth and development, scope and sequence, appropriate teaching techniques, and class organization and management (7-12).	20. demonstrate ability and teaching progression in numerous physical activities including tennis, badminton, volleyball, racquetball, swimming, archery, bowling, tumbling, wrestling, speedball, softball, soccer, team handball and dance (K-12, 7-12).	HPER 345 Tests & Measurements in Physical Ed*	2
10. demonstrate knowledge of the Physical Education Competencies and Key Skills for Missouri Schools.	21. demonstrate knowledge of health-related physical fitness and assess their personal fitness level for each component (K-12, 7-12).	HPER 365 Socio-Psychological Aspects of Physical Ed*	2
11. demonstrate knowledge of the content, scope, implementation and evaluation of health and safety education, growth and developmental characteristics, and emergency care procedures for elementary school children (K-12, K-9).	22. demonstrate ability and teaching progression in numerous physical activities (K-9).	HPER 370 School Health Educ (Elem)*	3
12. demonstrate knowledge to prevent trauma or conditions which adversely affect health or performance, to manage (first aid, evaluation, treatment and rehabilitation) of trauma or other medical problems, to counsel the student in various health related areas including nutrition and personal health habits, and to understand the operation of an athletic training facility (K-12, 7-12).		HPER 375 Adapted Physical Ed*	3
13. demonstrate knowledge of the Comprehensive Health Competencies and Key Skills for Missouri Schools (K-12, K-9).		HPER 431 Physiology of Exercise*	2
14. demonstrate knowledge and performance of developmental skills, fundamental forms of movement, and the ability to analyze and teach skill performance for elementary age children (K-12, K-9).		HPER 450 Prevention and Care of Injuries*	3
		HPER 470 Administration of Physical Educ*	2
		Select a minimum of two courses from the following:	
		HPER 350 Theory of Basketball*	2
		HPER 351 Theory of Football*	2
		HPER 352 Theory of Track & Field*	2
		HPER 353 Theory of Soccer*	1
		HPER 354 Theory of Volleyball*	1
		HPER 360 Theory of Baseball*	2
		Education Certification Requirements (p. 115-127)	30
			129-131
		*See Prerequisites	
		Bachelor of Science in Education with a Major in Physical Education	
		7-12 Two Teaching Fields	
		Semester Hours	
		Core Requirements (p. 35)	48
		Physical Education Requirements	37
		Bio 306 Human Physiology & Anatomy*	5
		HPER 251 Fund of Physical Education Activities I*	3
		HPER 252 Fund of Physical Education Activities II*	3
		HPER 255 Theory & Practice of Dance & Exercise*	2
		HPER 321 Theory & Analysis of Selected Team Sports*	3
		HPER 335 History & Philosophy of Physical Ed*	2
		HPER 342 Kinesiological Approach to Movement*	3
		HPER 345 Tests & Measurements in Physical Ed*	2
		HPER 365 Socio-Psychological Aspects of Physical Ed*	2
		HPER 375 Adapted Physical Ed*	3
		HPER 431 Physiology of Exercise*	2
		HPER 450 Prevention & Care of Injuries*	3
		Bachelor of Science in Education with a Major in Physical Education	
		K-12 One Teaching Field	
		Semester Hours	
		Core Requirements (p.35)	48
		Physical Educ Requirements	51-53
		Bio 306 Human Phys & Anatomy*	5
		HPER 251 Fund of Physical Educ Activities I*	3
		HPER 252 Fund of Physical Educ Activities II*	3
		HPER 255 Theory & Practice of Dance & Exercise*	2
		HPER 310 The Elem School Physical Ed Prog*	3
		HPER 312 Teaching Elem School Physical Ed*	3

HPER 470 Administration of Physical Education*	2
Select a minimum of two courses from the following:	
HPER 350 Theory of Basketball*	2
HPER 351 Theory of Football*	2
HPER 352 Theory of Track & Field*	2
HPER 353 Theory of Soccer*	1
HPER 354 Theory of Volleyball*	1
HPER 360 Theory of Baseball*	2
Education Certification Requirements (p. 115-127)	30
Unrestricted Electives or Second Teaching Field	10-13
	128

*See Prerequisites

Bachelor of Science in Education with a Major in Physical Education K-9 Two Teaching Fields

	Semester Hours
Core Requirements (p. 35)	51
Physical Education Requirements	33
Bio 306 Human Physiology & Anatomy*	5
HPER 310 The Elem School Physical Education Program*	3
HPER 312 Teaching Elem School Physical Education*	3
HPER 321 Theory and Analysis of Selected Team Sports*	2
HPER 332 Rhythmic Form & Analysis*	2
HPER 335 History and Philosophy of Physical Education*	2
HPER 340 Motor Learning in Physical Education*	3
HPER 342 Kinesiological Approach to Movement*	3
HPER 345 Tests & Measurements in Physical Education*	2
HPER 365 Socio-Psychological Aspects of Physical Ed*	2
HPER 370 School Health Ed (Elem)*	3
HPER 431 Physiology of Exercise*	2
Education Certification Requirements (p. 115-127)	30
Unrestricted Elective or Second Teaching Field	11-14
	128-131

*See Prerequisites

Minor in Physical Education (non-teaching minor)

	Semester Hours
Bio 306 Human Physiology & Anatomy*	5
HPER 335 History & Philosophy of Physical Education*	2
HPER 342 Kinesiological Approach to Movement*	3
HPER 365 Socio-Psychological Aspects of Physical Ed*	2

HPER 431 Physiology of Exercise*	2
HPER 450 Prevention and Care of Injuries*	3
Select one of the following:	
HPER 251 Fund of Physical Education Activities I*	3
HPER 252 Fund of Physical Education Activities II*	3
HPER 321 Theory & Analysis of Team Sports	3
	20

*See Prerequisites

Minor in Coaching

	Semester Hours
Bio 306 Human Physiology & Anatomy*	5
HPER 150 Rules & Officiating of Team Sports	3
HPER 342 Kinesiological Approach to Movement*	3
HPER 450 Prevention and Care of Injuries*	3
Select a minimum of five hours from the following:	
HPER 350 Theory of Basketball*	2
HPER 351 Theory of Football*	2
HPER 352 Theory of Track & Field*	2
HPER 353 Theory of Soccer*	1
HPER 354 Theory of Volleyball*	1
HPER 360 Theory of Baseball*	2
	19

*See Prerequisites

Minor in Athletic Training

	Semester Hours
Bio 306 Human Physiology & Anatomy*	5
HPER 220 First Aid	2
HPER 342 Kinesiological Approach to Movement*	3
HPER 431 Physiology of Exercise*	2
HPER 450 Prevention and Care of Injuries*	3
HPER 451 Advanced Athletic Training*	2
Select one of the following:	
Rad 111 Medical Terminology	3
HPER 385 Nutrition for Human Dev*	3
	20

*See Prerequisites

Suggested Order of Study

Bachelor of Science in Education Major Code 0822 Physical Education Major K-12

Freshman Year

1st Semester	
Course	Hours
CORE [Eng 101 Comp I]	3
Educ 100 Orientation to Educ I	1
Psy 100 General Psychology	3
CORE [Core Electives]	9
Psy 120 College Orientation	1
	17

2nd Semester	
CORE [Eng 102 Comp II] (Eng 101)	3
CORE [Bio 121 General Zoology]	4
CORE	9
	16

Sophomore Year

1st Semester	
Educ 200 Orientation to Educ II	1
HPER 251 Fund of Phys Act I (30 Hrs)	3
CORE [PSY 100 Fund of Phys Sci]	5
CORE [Core Electives]	9
	18

2nd Semester

Pass C-Base test. Apply for tentative admission to Teacher Education.

HPER 252 Fund of Phys Act II (30 Hrs)	3
HPER 255 Theory of Dance (30 Hrs)	2
HPER 335 Hist & Phil PE (HPER 251)	2
Bio 306 Human Phy & Anat (Bio 121)	5
Psy 310 Educ Psy (Psy 100)	2
CORE [Core Electives]	3
	17

Junior Year

1st Semester	
HPER 310 Elem Sch PE Prog (HPER 252)	3
HPER 321 Team Sports (HPER 252)	3
HPER 332 Rhy Form & Anal (HPER 252)	2
Psy 305 Developmental Psychology	4
HPER 340 Motor Learn (HPER 310 or 311)	3
Psy 302 Exceptional Child (Psy 100)	2
	17

2nd Semester

Pass media competencies.

HPER 312 Tch Elem Sch PE (HPER 310)	3
HPER 342 Kinesiology (Bio 306)	3
HPER 345 Tests & Meas in PE (Psy 310)	2
Educ 329 Ped Theo Meth & Prac	4
Educ 321 Microteaching	2
Coaching Theory Course	1-2
Educ 423 Classroom Management	2
	17-18

Senior Year

1st Semester

Apply for student teaching.

HPER 365 Socio-Psy Aspects of PE (HPER 252)	2
HPER 431 Physiol of Exercise (Bio 306)	2
HPER 370 School Health-Elem	3
HPER 450 Care/Prev/Injuries (HPER 342)	3
HPER 470 Adm of PE (20 Hrs HPER)	2
HPER 375 Adapted PE (HPER 252)	3
Educ 422 Reading Secondary School	2
Coaching Theory Courses	1-2
	18-19

2nd Semester

Educ 338 Teaching Health & PE	2
Educ 401 Computer Software	2
Educ 402 Foundations of Educ	2
Educ 432 Critical Issues in Educ	2
Educ 464 Student Teaching	8
	16

(Prerequisites)

[Department Recommendations]

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Bachelor of Science in Education

Major Code 0821

Physical Education Major 7-12

Freshman Year

1st Semester

Course	Hours
Educ 100 Orientation to Educ I	1
CORE [Eng 101 Comp I]	3
Psy 100 General Psychology	3
CORE [Core Electives]	9
Psy 120 College Orientation	1
	17

2nd Semester

CORE [Eng 102 Comp II (Eng 101)]	3
CORE [Bio 121 Gen Zoology]	4
CORE [Core Electives]	9
	16

Sophomore Year

1st Semester

HPER 251 Fund of PE Act I (30 Hrs)	3
Educ 200 Orient to Educ II	1
CORE [Psy 100 Fund of Phys Sci]	5
CORE [Core Electives]	9
	18

2nd Semester

HPER 252 Fund of PE Act II (30 Hrs)	3
HPER 255 Theory of Dance (30 Hrs)	2
HPER 335 Hist & Phil of PE (HPER 251)	2
Bio 306 Human Phy & Anat (Bio 121)	5
Psy 310 Educ Psy (Psy 100)	2
CORE [Core Electives]	3
	17

Junior Year

1st Semester

Pass media competencies.

HPER 321 Team Sports (HPER 252)	3
Psy 301 Adolescent Psychology	3
Educ 329 Ped Theo Meth & Prac	4
Educ 321 Microteaching	2
Educ 423 Classroom Management	2
Coaching Theory Course	1-2
CORE [Core Electives]	3
	18-19

2nd Semester

HPER 342 Kinesiology (Bio 306)	3
HPER 345 Tests & Meas (Psy 310)	2
Psy 302 Exceptional Child (Psy 100)	2
Coaching Theory Course	2-4
Electives	6
	15-17

Senior Year

1st Semester

Apply for student teaching.

HPER 365 Socio-Psy Aspects PE (HPER 252)	2
HPER 431 Physiology of Ex (Bio 306)	2
HPER 450 Prev/Care/Injuries (HPER 342)	3
HPER 470 Adm of PE (20 Hrs HPER)	2
Educ 422 Reading Secondary School	2
HPER 375 Adapted PE (HPER 252)	3
Electives	3
	17

2nd Semester

Educ 338 Teaching Health & PE	2
Educ 401 Computer Software	2
Educ 402 Foundations of Educ	2
Educ 432 Critical Issues in Educ	2
Educ 462 Student Teaching	8
	16

(Prerequisites)

[Department Recommendations]

Bachelor of Science in Education

Major Code 0820

Physical Education Major Grades K-9 Certification

This program is an endorsement to a major teaching field.

Freshman Year

1st Semester

Course	Hours
Eng 101 Comp I	3
Psy 100 General Psychology	3
CORE [CORE Electives]	9
Psy 120 College Orientation	1
Educ 100 Orientation to Educ I	1
	17

2nd Semester

Eng 102 Comp II	3
Bio 121 General Zoology	4
HPER 103 Lifetime Wellness	2
CORE [CORE Electives]	6
	15

Sophomore Year

1st Semester

Educ 200 Orientation to Educ II	1
Bio 306 Human Phy & Anat (Bio 121)	5
CORE [CORE Electives]	6
Psy 305 Developmental Psychology	4
	16

2nd Semester

HPER 252 Fund of PE Activities II	3
HPER 335 Hist & Phil PE	2
Psy 310 Educ Psy (Psy 100)	2
CORE [CORE Electives]	9
	16

Junior Year

1st Semester

HPER 345 Test & Meas PE (Psy 310)	2
HPER 310 Elem Sch Prog (HPER 252)	3
HPER 321 Team Sports (HPER 252)	3
HPER 332 Phy Form & Anal (HPER 252)	2
HPER 340 Motor Learning	3
Psy 302 Exceptional Child Psych	2
	15

2nd Semester

Pass media competencies.

HPER 312 Tch Elem Sch PE (HPER 310)	3
HPER 342 Kinesiology (Bio 306)	3
Educ 321 Microteaching	2
Educ 329 Ped Theo Meth & Prac	4
Educ 423 Classroom Management	2
Educ 342 Intro to Dev Reading	3
	17

Senior Year

1st Semester

HPER 365 Socio-Psy Aspects	2
HPER 370 Scho Health & Elementary	3
HPER 431 Physiology of Exercise	2
Educ 343 Rding in Middle School	3
HPER 475 Adapted PE (HPER 252)	3
Electives	5
	18

2nd Semester

Educ 338 Tchng Hlth & Physical Ed	2
Educ 401 Computer Software	2
Educ 402 Foundations of Educ	2
Educ 432 Critical Issues in Educ	2
Educ 442 Student Teaching Elem	8
	16

(Prerequisites)

[Department Recommendations]

For additional information contact:

Dr. J. Dirk Nelson

Office: Young Gymnasium 214

Phone: 625-9316

Psychology

Taylor Hall 206, 625-9315

Faculty Griffin - Head, Babbitt, Junkins, Murdock, Paige, Schellenger, Volskay, Wang

The psychology department offers two degrees: the bachelor of arts (B.A.) and the bachelor of science (B.S.). The B.A. and B.S. degrees provide an excellent foundation for students who wish to earn advanced graduate degrees in pursuit of a career in psychology.

Bachelor of Arts in Psychology

	Semester Hours
Core Requirements (p. 35)	51
Foreign Language	12
Psychology Requirements	40
Psy 100 General Psychology	3
Psy 305 Developmental Psychology (4)	
OR	
Psy 300 Child Development (3)	
AND	
Psy 301 Adolescent (3)	4-6
Psy 320 Applied Statistics for the Behavioral Sciences*	3
Psy 325 Computers in the Behavioral Sciences	3
Psy 330 Experimental Psychology**	5
Psy 411 Psychology of Sensation and Perception	
OR	
Psy 442 Physiological Psychology	3
Psy 341 Social Psychology	
OR	
Psy 422 Theories of Personality	3

Psy 451	Learning and Memory	3
Psy 452	History and Systems of Psychology	3
Psy 480	Senior Seminar	2
Psy 481	Senior Thesis	2
Psychology Electives		6
Supporting Area		21

The supporting area requires at least 21 hours in one of the following areas: music, economics/finance, English/literature, history, journalism, law enforcement, marketing/management, military science, political science, sociology or other area approved by the adviser and the department.

Electives (from psychology or other)	7
	128

*Formerly numbered 311

**Formerly numbered 312

Bachelor of Science in Psychology

	Semester	Hours
Core Requirements (p. 35)		51
Psychology Requirements		40
Psy 100	General Psychology	3
Psy 305	Developmental Psychology (4)	
OR		
Psy 300	Child Development (3)	
AND		
Psy 301	Adolescent Psy (3)	4-6
Psy 320	Applied Statistics for the Behavioral Sciences*	3
Psy 325	Computers in the Behavioral Sciences	3
Psy 330	Experimental Psychology**	5
Psy 411	Psychology of Sensation and Perception	
OR		
Psy 442	Physiological Psychology	3
Psy 341	Social Psychology	
OR		
Psy 422	Theories of Personality	3
Psy 451	Learning and Memory	3
Psy 452	History and Systems of Psychology	3
Psy 480	Senior Seminar	2
Psy 481	Senior Thesis	2
Psychology Electives		6
Supporting Area		21

The supporting area requires at least 21 hours of one of the following areas: biology, chemistry, computer science, mathematics, physics or other science area approved by the adviser and the department.

Additional hours of science	9
Electives (from psychology or other)	10
	128

*Formerly numbered 311

**Formerly numbered 312

Minor in Psychology

Psy 100	General Psychology	3
Psy 305	Developmental Psychology (4)	
OR		
Psy 301	Adolescent Psy (3)	
OR		
Psy 300	Child Development (3)	3-4
Psy 320	Applied Statistics for the Behavioral Sciences*	3
Psychology Electives*		11-12
		21

*Select with approval of a psychology adviser.

A minor in psychology complements many majors providing knowledge and skills concerning personal, interpersonal and group behavior. A psychology adviser will help students minoring in psychology to select method and content courses appropriate to their goals.

Suggested Order of Study

Bachelor of Arts

Major Code 2001

Psychology Major

Freshman Year

1st Semester	Course	Hours
	Psy 100 General Psychology	3
	CORE [Eng 101 Comp I]	3
	CORE [Math 110, 130 or 131]	3
	Psy 120 College Orientation	1
	CORE [Core Electives]	5
		15
2nd Semester	Course	Hours
	CORE [Eng 102 Comp II (Eng 101)]	3
	Psy 305 Developmental Psychology	4
	Bio 101 General Biology	4
	CORE	5
		16

Sophomore Year

1st Semester	Course	Hours
	Psy 320 Applied Stat (Psy 100 or 110)	3
	Psy 411 Sensation and Perception**	
OR		
	Psy 341 Social Psychology	3
	Supporting Area	3
	CORE	5
	Foreign Language	3
		17
2nd Semester	Course	Hours
	Psy 325 Comp in Behav Sci (Psy 320)**	3
	Psy 442 Physiological Psychology*	
OR		
	Psy 422 Theories of Personality**	3
	Psychology Elective	3
	Elective	3
	Foreign Language	3
		15

Junior Year

1st Semester	Course	Hours
	Psy 330 Experimental Psy (Psy 325)	5
	Supporting Area	3
	Foreign Language	3
	CORE	3
		14
2nd Semester	Course	Hours
	Psy 451 Learn, Mem & Cog (Psy 330)**	3
	Psychology Elective	3
	Supporting Area	6
	Foreign Language	3
		15

Senior Year

1st Semester	Course	Hours
	Psy 480 Senior Seminar	2
	Psy 452 History & Systems (Psy 330)*	3
	Psychology Elective	3
	Core	3
	Supporting Area	6
		17
2nd Semester	Course	Hours
	Psy 481 Senior Thesis**	2
	Core	6
	Psychology or other electives	9
		17

*Offered fall semester only

**Offered spring semester only

(Prerequisites)

[Department Recommendations]

Bachelor of Science

Major Code 2000

Psychology Major

Freshman Year

1st Semester	Course	Hours
	Psy 100 General Psychology	3
	CORE [Eng 101 Comp I]	3
	CORE [Math 110, 130 or 131]	3
	Psy 120 College Orientation	1
	CORE	5
		15

2nd Semester

	CORE [Eng 102 Comp II (Eng 101)]	3
	CORE [Bio 101 General Biology]	4
	CORE	5
	Psy 305 Developmental Psychology	4
		16

Sophomore Year

1st Semester	Course	Hours
	Psy 320 Applied Statistics (Psy 100)	3
	Psy 411 Sensation and Perception**	
OR		
	Psy 341 Social Psychology*	3
	Supporting Area	3
	CORE	8
		17

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2nd Semester

Psy 325	Comp in Behav Sci (Psy 320)**	3
Psy 442	Physiological Psychology*	
OR		
Psy 422	Theories of Personality**	3
Psychology Elective		3
Elective		3
Science		3
		15

Junior Year

1st Semester		
Psy 330	Exper Psychology (Psy 325)	5
Supporting Area		3
Science		3
CORE		3
		14

2nd Semester

Psy 451	Learn, Mem & Cog (Psy 330)**	3
Psychology Elective		3
Supporting Area		6
Science		3
		15

Senior Year

1st Semester		
Psy 480	Senior Seminar	2
Psy 452	History and Systems (Psy 330)*	3
Psychology Elective		3
CORE		3
Supporting Area		6
		17

2nd Semester

Psy 481	Senior Thesis	2
CORE		6
Psychology or other electives		9
		17

*Offered fall semester only

**Offered spring semester only

(Prerequisites)

[Department Recommendations]

Other Requirements

Ten hours are required from math, computer science, chemistry, biology and/or physics, in addition to all other requirements. These replace the foreign language requirement.

For additional information contact:

Dr. Betsy Q. Griffin
Office: Taylor Hall 209
Phone: 625-9306

Course Descriptions

Education (Educ)

Educ 010 (F, S) 2 hrs. cr.

Techniques of Reading

Designed to improve and enhance reading skills. Vocabulary, comprehension and flexibility for rate are addressed in addition to the introduction of learning strategies involved in the successful transition from high school to college level of study. Provides opportunities for improving reading and study skills as well as for developing reading enrichment.

Educ 100 (F, S) 1 hr. cr.

Orientation to Education I

An orientation to teacher education required of freshmen who select elementary or secondary education as their major field. A 15 clock hour field based component is included.

Educ 200 (F, S) 1 hr. cr.

Orientation to Education II

An extension of Educ 100. Classroom experiences emphasized as well as the conditions for teaching. A 15 clock hour field based component is included.

Educ 302 (F, S) 2 hrs. cr.

The Exceptional Child

A series of awareness experiences dealing with the added complexities an exceptional child presents to a regular classroom teacher. Includes characteristics of the exceptional child, resources in the community and legislation which determines school policy. Prerequisite: Psy 100.

Educ 311 (F, S) 2 hrs. cr.

Science in the Elementary School

Designed to help teacher trainees (1) comprehend the basic notion of science and how children go about learning science, (2) develop materials suitable for demonstration, discovery and inquiry lessons and (3) develop the instructional skills necessary to achieve the first two goals. Students will develop lesson plans and learning kits and will present a teaching episode. Prerequisites: Courses in biological and physical sciences and Educ 321 Microteaching.

Educ 312 (F, S) 3 hrs. cr.

Problems of Teaching Arithmetic in Elementary Schools

(See Math 312)
Application of principles of learning and techniques of presentation. Techniques for diagnosis and remediation are treated as they relate to the elementary classroom. Prerequisite: 3 hrs. of math.

Educ 316 (F - Demand) 2 hrs. cr.

Foundations, Issues and Trends in Early Childhood Education

Survey designed to acquaint the prospective teacher of young children with the historical, philosophical, psychological and social foundations of early childhood education. Designed to present current issues and trends associated with early childhood programming and consequent role expectations of prospective teachers. May be taken concurrently with the junior block courses.

Educ 317 (S - Demand) 3 hrs. cr.

Curriculum in Early Childhood Education

Curriculum development in early childhood education, with special emphasis on various program models and curriculum designs currently used at the early childhood level; the formulation of developmentally appropriate goals for and curriculum content of educational programs for young children; and models of classroom management in early childhood education. Prerequisite: Educ 316.

Educ 318 (F - Demand) 3 hrs. cr.

Early Childhood Methods and Materials

Background in teaching strategies and materials for the young child. Fundamentals of designing developmentally appropriate small group, large group and individual learning experiences for young children; and appropriate teaching methods and materials at the early childhood level. Prerequisites: Educ 316 and Educ 317, Psy 100 or Psy 300. Must be taken concurrently with Educ 319.

Educ 319 (F - Demand) 2 hrs. cr.

Practicum I in Early Childhood Education

Supervised participation in teaching on the early childhood level in the MSSC Child Development Center for a minimum of 64 clock hours. Students will design and implement small group, large group and individual learning experiences, develop appropriate materials for children's use and practice appropriate teaching strategies for young children. Prerequisites: Educ 316, Educ 317, Psy 100 and 300. Must be taken concurrently with Educ 318.

Educ 321 (F, S) 2 hrs. cr.

Microteaching

A required part of Educ 329 to be taken concurrently. Short teaching episodes are prepared, taught and analyzed via videotape. The basic concern is with the demonstration of effective teaching skills.

Educ 322 (F, S) 2 hrs. cr.

Teaching Social Studies in Elementary School

An introduction to the instructional materials and methods of teaching social studies in the elementary school.

Educ 323 (S - Demand) 2 hrs. cr.

Utilizing Family and Community Resources for the Young Child

Designed to acquaint the prospective teacher of young children with the needs and concerns of families rearing young children, methods of involving parents in the education of their children, and knowledge of community resources for families with young children.

Educ 324 (F, S) 3 hrs. cr.

Introduction to Special Education

Introduction to the three areas of special education (LD, MH, BD). This course provides the basis of understanding necessary to learn and apply the methodologies needed for each of these three areas of exceptionalities. A survey of research will be provided. Prerequisites: Educ 302, Psy 100 and Psy 305.

Educ 329 (F, S) 4 hrs. cr.

Pedagogical Theory, Methods and Practices

Examines the theoretical basis for the decision making model of the teacher education program. Provides the methodological basis for making pedagogical decisions concerning lesson design, identification of learning styles and assessment techniques. Microteaching experiences provide an opportunity to practice methods and techniques for teaching. Thirty-two hours of junior internship in the elementary and secondary school classroom provides an opportunity to refine theory into practical applications.

Educ 332 (S) 2 hrs. cr.

Teaching English and Language Arts in Secondary School

An introduction to the instructional materials and methods of teaching English, speech and foreign language. Part of the Professional Semester.

Educ 333 (S) 3 hrs. cr.

Teaching Science in Secondary School

An introduction to the instructional materials and methods of teaching science. Part of the Professional Semester.

Educ 334 (S) 2 hrs. cr.

Teaching Social Science in Secondary School

An introduction to the instructional planning, materials and methods of teaching social science. Part of the Professional Semester.

Educ 335 (S) 2 hrs. cr.

Teaching Music in Secondary School

An introduction to the instructional planning, materials and methods of teaching music. Part of the Professional Semester.

Educ 336 (S) 2 hrs. cr.

Teaching Business in Secondary School

An introduction to the instructional planning, materials and methods of teaching business. Part of the Professional Semester.

Educ 337 (F, S) 2 hrs. cr.

Teaching Art in Secondary School

An introduction to the instructional planning, materials and methods of teaching art. Part of the Professional Semester.

Educ 338 (F, S) 2 hrs. cr.

Teaching Health and Physical Education in Secondary School

An introduction to the instructional planning, materials and methods of teaching physical education and health. Part of the Professional Semester.

Educ 339 (S) 3 hrs. cr.

Teaching Mathematics in Secondary School

An introduction to the instructional planning, materials and methods of teaching mathematics. Includes brief survey of the history of algebra and trigonometry. Part of the Professional Semester. Will not count toward a major in mathematics.

Educ 340 (F, S) 2 hrs. cr.

Language Arts

Foundation course for development of understanding attitudes necessary to teach written and oral communication at the elementary level.

Educ 342 (F, S) 3 hrs. cr.

Introduction to Developmental Reading

First course in reading methods. Different approaches to teaching reading are studied and compared to individual learning styles of children. Can be taken with junior block.

Educ 343 (F, S) 3 hrs. cr.

Teaching Reading in the Middle School

Follows the introductory course in reading. Needs of the middle school age student population are addressed. Emphasis on assessing student needs, individualizing programs based on needs, reading in the content areas, study skills and recreational reading as a lifetime habit. Course can be taken concurrently with Educ 470.

Educ 344 (S) 2 hrs. cr.

Teaching Speech and Theatre in Secondary School

Techniques, methods and course content used in teaching speech and theatre. Part of the Professional Semester. Prerequisite: Admission to teacher education.

Educ 345 (S) 2 hrs. cr.

Teaching Foreign Language in Secondary Schools

An introduction to the instructional materials and the methodology used in the teaching of foreign languages at the secondary level.

Educ 350 2 hrs. cr.

Corrective Reading Instruction for Classroom Teachers

Acquaints the preservice teacher seeking certification in remedial reading, with commercially prepared informal diagnostic instruments, attitude and interest inventories, prescriptive measures, anecdotal records and strategies for corrective reading instruction within the regular classroom for children at risk. Prerequisites: Educ 342, Educ 343.

Educ 401 (F, S) 2 hrs. cr.

Use of Computer Software in the Classroom

Use of microcomputers, with emphasis on evaluation, selection and uses of educational software.

Educ 402 (F, S) 2 hrs. cr.

Foundations of Education

Historical, philosophical and sociological aspects of American education. Emphasis on philosophical approaches to education theory and practice and application of the teaching-learning theory and practice.

Educ 403 (F) 3 hrs. cr.

Methods of Teaching the Mentally Handicapped

Designed to help the prospective or in-service teacher understand mental retardation and learn to work effectively with retarded learners. Includes appropriate curriculum, individualized program development and teaching strategies. Prerequisite: Educ 302 and Educ 324.

Educ 404 (S) 3 hrs. cr.

Methods of Teaching Children with Learning Disabilities

Designed for the prospective or in-service teacher of learning disabled students. Diagnosis, evaluation, programming, instructional approaches, instructional strategies and materials appropriate for use with learning disabled students. Prerequisite: Educ 302 and Educ 324.

Educ 405 (F) 3 hrs. cr.

Methods of Teaching Children with Behavioral Disorders

Establishes a teaching rationale utilizing a precision individualized teaching strategy which enables the emotionally disturbed learner to profit more fully from school experiences. Prerequisite: Educ 302 and Educ 324.

Educ 407 (S) 3 hrs. cr.

Diagnostic and Prescriptive Teaching

Use of formal test results to design specific level tests necessary to develop individualized educational plans (IEP's) for handicapped or nonhandicapped learners. Prerequisites: Educ 302 and Educ 324. Educ 474 is strongly recommended.

Educ 408 (F - Demand) 5 hrs. cr.

Assessment in Early Childhood

An in-depth study of systematic observation, testing tools and screening instruments will be provided. Supervised administration, scoring and interpretation of these assessments in early childhood education. In addition to 3 hrs. of lecture per week, students will be assigned to an early childhood setting for 4 clock hours a week to utilize systematic informal observational techniques which will culminate in a written case study report. Prerequisites: Educ 316 and 317.

Educ 409 (S - Demand) 2 hrs. cr.

Topics in Early Childhood Education: Language Development and Emergent Literacy

Designed to provide the prospective early childhood teacher with a study of current practices and research in the areas of language development of the young child and issues of emergent literacy. Requires the completion of a major paper and an oral presentation to fellow students and interested faculty based on a review of literature. Inherent in the course is a study of the development stages of young children and the constructivist theory of learning.

Educ 412 2 hrs. cr.

Middle School and Junior High Philosophy, Organization and Curriculum

Focus is on effective teaching and learning strategies for the Middle School and Junior High students. Knowledge of teaching and curricular methods suitable to students in the Middle School and Junior High school and a comprehension of the nature of the above students both developmentally and academically are highlighted. Designed for education majors seeking middle school certification (Grades 5-9) and for others interested in curriculum and instruction. Prerequisite: Admission to teacher education.

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Educ 420 (F, S) 3 hrs. cr.

Introduction to Counseling

Survey of interpersonal communication skills, counseling philosophies, methods, principles and practices. Designed for the classroom teacher as well as the specialist in counseling or special educator. Intended for working with both students and parents.

Educ 422 (F, S) 2 hrs. cr.

Teaching Reading in Secondary Schools

Research based and supported teaching/learning strategies utilized in effective lesson design in the content area classroom. Develops an awareness of the role of reading to content area classroom instruction. Presents strategies and materials utilized in diagnostic/prescriptive teaching.

Educ 423 (F, S) 2 hrs. cr.

Classroom Management

Concepts, skills and models, such as behavior modification, for developing a personalized three-dimensional approach to behavior and classroom management. How to prevent discipline problems, what to do when a problem occurs and what to do to decrease the possibility of problems recurring. Approaches include behavior modification, assertive discipline, desist techniques, reality therapy and other management techniques. To be taken concurrently with Educ 329.

Educ 430 (F) 3 hrs. cr.

Language Development of Exceptional Children

Required for certification in special education and recommended for teachers of students focusing on early childhood education. Basic structures of language, normal sequence of language acquisition and characteristics of language disabilities. Strategies suggested for both assessing and remediating language delays or disorders.

Educ 432 (F, S) 2 hrs. cr.

Critical Issues in Education

Exploration of current problems with special regard to legal and professional role of school personnel, their relationship to federal and state governments and to local school districts; certification, salary schedules, retirement and other benefits, professional organizations for teachers, relationship with administration, pupils, parents and the community. Prerequisite: Admission to teacher education. Offered in the Professional Semester.

Educ 435 (S) 3 hrs. cr.

Materials and Methods of Individualizing Instruction

Concepts, methods and materials for implementation of individual instruction. Useful for those designing learning programs for exceptional children. Prerequisites: Psy 310 and Educ 329.

Educ 442 (F, S) 8 hrs. cr.

Student Teaching-Elementary

Supervised participation on the elementary level in an assigned off-campus school site. The elementary student teaching experience is based on 50 full teaching days (10 weeks) and requires the student teacher to demonstrate his/her ability to be an entry-level, effective decision making teacher. Arrangements for placement are to be made in the semester preceding the actual student teaching block. Prerequisites: Please see Requirements for Admission to Student Teaching.

Educ 444 (F, S) 8 hrs. cr.

Student Teaching-Special Education

Supervised teaching in a special education setting in an assigned off-campus site. Course assignments consist of 50 full teaching days (ten weeks) and require the students to demonstrate their ability to be entry-level effective decision making teachers. Arrangements for placement are to be made in the semester preceding the actual student teaching block. The student will be required to divide the 10 week experience into two segments: Five weeks at the elementary level and five weeks at secondary level. Prerequisite: Please see Requirements for Admission to Student Teaching.

Educ 446 (F, S) 3 hrs. cr.

Practicum in Special Education

Clinical experience in special education settings with one of three exceptional populations; learning disabled (LD), mentally handicapped (MH) or behaviorally disordered (BD) learners. Must be preceded by the appropriate methods course for each of the three areas of exceptionalities. A practicum experience is required for each of the three areas of exceptionalities (LD, MH and BD). Prerequisites: Educ 302, Educ 324 and the appropriate methods course for each practicum taken, i.e., Educ 403, Educ 404 and/or Educ 405.

Educ 462 (F, S) 4-8 hrs. cr.

Student Teaching-Secondary

Supervised teaching on the secondary level in an assigned off-campus school site. The secondary school teaching experience is based on 50 full teaching days (ten weeks) and requires the student teacher to demonstrate his/her ability to be an entry-level, effective decision making teacher. Arrangements for placement are to be made in the semester preceding the actual student teaching block. Prerequisites: Please see Requirements for Admission to Student Teaching.

Educ 464 (F, S) 8 hrs. cr.

Student Teaching-EL-SEC (K-12)

Supervised teaching on the secondary and elementary levels in assigned off-campus school sites. The K-12 teaching experience is based on 50 full teaching days (ten weeks) and requires the student teacher to demonstrate his/her ability to be an entry-level, effective decision making teacher. The student will be required to divide the 10 week period into two segments: Five weeks at the elementary level and five weeks secondary level. Arrangements for placement are to be made in the semester preceding the actual student teaching block. Prerequisites: Please see Requirements for Admission to Student Teaching.

Educ 470 (F, S) 3 hrs. cr.

Diagnostic and Remedial Reading

Prepares the beginning remedial reading teacher and the regular class teacher to deal with remedial reading problems. Emphasis on diagnosis of problems more clinical in nature with techniques, materials and management being stressed. Prerequisites: Educ 342, Educ 343 or may be taken concurrently with Educ 343.

Educ 471 (F) 3 hrs. cr.

Practicum in Diagnosis of Reading Difficulties

Practice of administering, interpreting and reporting of diagnostic test results of reading difficulties. Prerequisites: Educ 342 or Educ 422, Educ 343, Educ 470 and Educ 474 or Psy 474.

Educ 472 (S) 3 hrs. cr.

Practicum in Remediation of Reading Difficulties

Practice of using and reporting results of remedial methods in a case study of reading difficulties. Prerequisites: Educ 342 or Educ 422, Educ 343, Educ 470, Educ 471.

Educ 474 (S) 3 hrs. cr.

Educational-Psychological Testing in Special Education

Comprehensive study of the various psycho-educational assessment techniques for diagnosis of learning problems of exceptional children, including educational, intelligence and psychomotor. Emphasis on translating assessment data to remedial programs. (Same as Psy 474). Prerequisites: Educ 302, Psy 310.

Educ 498 (Demand) 1-3 hrs. cr.

Seminar in Problems of Education

A weekly seminar for upper division majors. Credit hours determined by the department each semester. Covers specialized knowledge and/or current research in the discipline. Topics vary by semester and situation. Prerequisite: Advanced standing and consent of department head.

Educ 499 (F, S) 1-3 hrs. cr.

Independent Study

Structured by the adviser with approval of department head. Prerequisite: Advanced standing in the major field and approval of adviser and department head.

Health, Physical Education, and Recreation (HPER)

HPER 100 (F) 1 hr. cr.

Individual Physical Education

Adapted physical activity based on needs and ability of student. Students with certified medical disabilities may meet Core Curriculum requirement for physical education activity by completing this course. Note: MS 111 may be used in place of HPER 101 to fulfill this Core requirement.

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- HPER 101 (F, S)** 1 hr. cr.
Introduction to Physical Activities
Fundamental skills in individual or dual physical activities. Required course for Core Curriculum. Course meets twice each week. Note: MS 111 may be used in place of HPER 101 to fulfill this Core Curriculum requirement.
- HPER 103 (F, S)** 2 hrs. cr.
Lifetime Wellness
Contemporary information about the beneficial effects of a positive health life-style and how to implement and live such a life-style. Required course for Core Curriculum.
- HPER 150 (F, S)** 3 hrs. cr.
Rules and Officiating of Team Sports
Knowledge and skills for officiating basketball, volleyball, softball, baseball and football; officiating laboratory required in some areas. Open to all students.
- HPER 160 (F)** 3 hrs. cr.
Personal Health
Health problems of the individual, body mechanics, nutrition, drugs and drug abuse, sex hygiene, mental hygiene and the cause and prevention of common diseases. Not recommended for elementary education majors.
- HPER 220 (S)** 2 hrs. cr.
First Aid
Designed to complete the standard course of the American Red Cross in First Aid.
- HPER 222 (F, S)** 1 hr. cr.
Varsity Activities: Cheerleading
Practice for cheers, chants and stunts. Open only to MSSC cheerleaders; class meets twice a week.
- HPER 251 (F)** 3 hrs. cr.
Fundamentals of Physical Education Activities I
Study of the skills and understanding of selected activities: games, sports and individual activities commonly found in the school program. Students must demonstrate minimum levels of proficiency in various activities or may be required to enroll in an activity course in any area of insufficiency. Enrollment restricted to physical education majors and minors. Prerequisite: 30 hrs.
- HPER 252 (S)** 3 hrs. cr.
Fundamentals of Physical Education Activities II
Skills and understanding of selected activities: sports, gymnastics and tumbling. Students are required to demonstrate minimum levels of proficiency in the various activities or may be required to enroll in an activity course in any area of insufficiency. Enrollment restricted to physical education majors and minors. Prerequisite: 30 hrs.
- HPER 255** 2 hrs. cr.
Theory and Practice of Dance and Exercise
Provides the prospective secondary physical education major with fundamentals necessary to teach areas of dance and exercise. Performance in the basic fundamental rhythms, aerobic dance, exercises and choreographing rhythmic routines are included. Prerequisite: 30 hrs.
- HPER 305 (S)** 2 hrs. cr.
Aging and Health
Course investigates the health status of the elderly in the United States, how the older population has changed from the past and how it may change in the future. Explore how exercise can retard some to the effects of aging. Prerequisites: HPER 103, Bio 101 or Bio 121.
- HPER 310 (F)** 3 hrs. cr.
The Elementary School Physical Education Program
Procedures and techniques for planning the curriculum for elementary school physical education. Prerequisite: HPER 252, physical education majors only.
- HPER 311 (F, S)** 2 hrs. cr.
Physical Education for the Elementary School
Methods and materials needed for directing games, skills, rhythm and stunts for the elementary school child. Designed for students who are candidates for the elementary level teaching certificates.
- HPER 312 (S)** 3 hrs. cr.
Teaching Elementary School Physical Education
Analysis of basic movement patterns, basic skills, rhythmic and game activities with detailed explanations of presentation to the elementary school child. Prerequisite: HPER 310 physical education majors only.
- HPER 321 (F)** 3 hrs. cr.
Theory and Analysis of Selected Team Sports
Professional course for physical education teachers with emphasis on organizing and performing of selected team sports. Prerequisite: HPER 252.
- HPER 325 (F, S)** 1-8 hrs. cr.
Internship in Physical Therapy Procedures
Observation and participation in physical therapy procedures for patients in a medical facility. Prerequisites: One year of athletic training work, junior standing and approval of departmental committee.
- HPER 332 (F)** 2 hrs. cr.
Rhythmic Form and Analysis
Analysis of dance forms showing how complex music and dance forms are evolved. Prerequisite: HPER 252.
- HPER 335 (S)** 2 hrs. cr.
History and Philosophy of Physical Education
Changing role of physical education as indicated by its historical past and as evidenced through the influence of the various philosophies. Prerequisite: HPER 252 or currently enrolled in 252.
- HPER 340 (F)** 3 hrs. cr.
Motor Learning in Physical Education
Study of motor learning to provide the teacher with the background necessary for identification of physical, mental, social and emotional development of children and their effect on behavior movement. Recommended for teachers working with children with special problems. Prerequisite: HPER 310 or 311.
- HPER 342 (S)** 3 hrs. cr.
Kinesiological Approach to Movement
A mechanical and kinesiological approach to the movement of individuals in various activities. Prerequisite: Bio 306 or equivalent.
- HPER 345 (S)** 2 hrs. cr.
Tests and Measurements in Physical Education
Designed to train the prospective physical education teacher in the techniques of measuring and evaluating performance. Includes preparation and administration of skill and written tests along with statistical procedures for data analysis. Prerequisite: Psy 310.
- HPER 350 (S)** 2 hrs. cr.
Theory of Basketball
Organization and management of the secondary school basketball program. Systems of offense and defense in basketball. Study of rules, training schedule, discussion of problems arising during training and regular playing season. Prerequisite: 60 hrs.
- HPER 351 (F)** 2 hrs. cr.
Theory of Football
Attention to team play, systems of offense and defense, field strategy, discussion of rules, training and equipment. Prerequisite: 60 hrs.
- HPER 352 (S)** 2 hrs. cr.
Theory of Track and Field
Organization and administration of meets, coaching, physical conditioning and training for each event in track and field programs. Prerequisite: 60 hrs.
- HPER 353** 1 hr. cr.
Theory of Coaching Soccer
Organization and management of soccer competition. Systems of offense and defense, rules, strategy and fundamentals of soccer are studied. Prerequisite: 60 hrs.
- HPER 354** 1 hr. cr.
Theory of Coaching Volleyball
Organization and management of volleyball competition. Offensive and defensive systems, rules, strategy, drills and fundamentals are studied. Prerequisite: 60 hrs.
- HPER 360 (F)** 2 hrs. cr.
Theory of Baseball
Organization and management of a school baseball program including individual techniques, team play and problems in coaching of baseball. Prerequisite: 60 hrs.
- HPER 365 (F, S)** 2 hrs. cr.
Socio-Psychological Aspects of Physical Education
Behavior exhibited in the learning of skills and physical performance related to sociological and psychological concepts connected with the demands of physical activities. Group and individual activities and conflicts in sport are analyzed; the effect of sports on society is also studied. Prerequisite: HPER 252.

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HPER 370 (F, S) 3 hrs. cr.

School Health Education

Study of the content, facilities and equipment needed for teaching school health and safety. Should be taken by all elementary education majors in the place of HPER 160. Separate sections on health and nutrition programs for children for elementary majors. Prerequisite: 5 hrs. biology.

HPER 375 (F) 3 hrs. cr.

Adapted Physical Education

Course provides information and practices to assist professionals in designing and implementing appropriate physical education programs for individuals with disabilities. Prerequisite: HPER 252 or permission of instructor.

HPER 385 (F) 3 hrs. cr.

Nutrition for Human Development

Nutrition associated with human development and performance, physiological and biochemical bases of nutrient absorption and utilization. Particular attention to evaluating and developing appropriate nutrition strategies for optimal child development and exercise performance. Prerequisites: Bio 101 or Bio 121.

HPER 395 (F, S) 2 hrs. cr.

Practicum in Well ness

Course for students to perform duties in the Missouri Southern State College Wellness Program. Experience will provide the student with the opportunity to apply skills and knowledge in the wellness program. Student and faculty supervisor will develop a contractual agreement for specific learning experiences in the practicum. Prerequisites: HPER 103 and HPER 345.

HPER 431 (F) 2 hrs. cr.

Physiology of Exercise

Course for students already having prerequisite knowledge of human physiology. Emphasis on human responses to varying levels of physiological conditioning and the environment within which the exercise is taken. Includes physiological principles to better understand human physiology under exercise stress. Prerequisite: Bio 306.

HPER 450 (F, S) 3 hrs. cr.

Prevention and Care of Injuries

Designed to provide knowledge related to prevention, care and rehabilitation of injuries. Laboratory experiences included. Prerequisite: HPER 342.

HPER 451 (S) 2 hrs. cr.

Advanced Athletic Training

A study of professional relationships, pharmacology, special problems in athletics, exercise programs and specific injuries to the upper and lower extremities. Practical learning experiences included. Prerequisite: HPER 450.

HPER 470 (F) 2 hrs. cr.

Administration of Physical Education

Organization and management of health and physical education in schools, scheduling, personnel, curriculum, finances, equipment and facilities. Study of intramural program. Prerequisite: 20 hrs. HPER.

HPER 498 (Demand) 1-3 hrs. cr.

Seminar in Health or Physical Education

A thorough study of an advanced problem in health or physical education for selected students. Prerequisite: Senior standing, permission of department head.

HPER 499 (F, S) 1-3 hrs. cr.

Independent Study

Research of a problem or field study relating to physical education; material, content, credit and schedule to be arranged by the department head. Prerequisite: Senior standing, 3.0 GPA in major and permission of department head.

The following courses may be repeated three times:

Course No.	Hours cr.
HPER 161 (F) — Varsity Football	1 hr. cr.
HPER 162 (F) — Varsity Basketball	1 hr. cr.
HPER 163 (F) — Varsity Volleyball	1 hr. cr.
HPER 171 (F) — Varsity Cross Country	1 hr. cr.
HPER 172 (S) — Varsity Track and Field	1 hr. cr.
HPER 180 (S) — Varsity Golf	1 hr. cr.
HPER 182 (S) — Varsity Baseball	1 hr. cr.
HPER 183 (S) — Varsity Softball	1 hr. cr.
HPER 191 (F) — Varsity Soccer	1 hr. cr.
HPER 192 (S) — Varsity Tennis	1 hr. cr.
HPER 250 (S) — Dance and Exercise	1 hr. cr.
HPER 261 (F) — Elementary Swimming	1 hr. cr.
HPER 292 (F) — Fitness and Weight Training	1 hr. cr.

Psychology (Psy)

Psy 100 (F, S) 3 hrs. cr.

General Psychology

Introductory course stressing the importance of the psychological mechanisms underlying all human behavior. Satisfies the Core Curriculum requirement.

Psy 100 (F) 3 hrs. cr.

General Psychology-Honors

Basically the same topics as general psychology above. Designed and specially taught for honors students. Other students permitted with consent of instructor.

Psy 105 1 hr. cr.

Self-Awareness and Career Planning

Materials and methods to help students investigate their present lifestyles including concrete methods of decision making and goal setting. Concentrated career/vocational choice sessions will help students determine an appropriate career. Offered during the second half of each semester. No credit toward psychology major.

Psy 120 (F, S) 1 hr. cr.

College Orientation

A requirement for all incoming freshmen. Provides a small group setting for open communication between students in an informal situation. Content focuses on practical knowledge necessary for academic survival, adviser assignment and current issues of concern. Regular course withdrawal procedures do not apply. No credit toward psychology major.

Psy 201 1 hr. cr.

Psychology 201

Theory and methods of telephone crisis line (hotline) paraprofessional functioning: interview skills, ethics, dealing with specific types of callers and problems, resource review and procedures and rules of Joplin Crisis Intervention, Inc. One hour lecture each week. Prerequisites: Sophomore standing and psychology major, or advance permission of instructor.

Psy 202 (F, S) 1 hr. cr.

Psychology 202 Crisis Intervention Practicum

A continuation of Psy 201, Crisis Intervention. For one to three semesters, students function as Joplin Crisis Intervention paraprofessionals, attending JCI meetings and meeting with their faculty supervisor, as a group, once a month. Prerequisite: Psy 201.

Psy 221 (F) 3 hrs. cr.

Psychology of Personal Adjustment

Selected principles of adjustment, ways of improving adjustment and research of practical value. Some emphasis on assertion skills. Strongly recommended as a second course (following Psy 100) for psychology majors.

Psy 298 (Demand) 1 hr. cr.

Special Topics in Psychology

Special topics in psychology not normally included in other courses. Prerequisites to be determined by the department.

Psy 300 (F, S) 3 hrs. cr.

Child Development

Behavior and growth patterns of children from conception to puberty. Psychological findings are presented which are relevant to how children learn, solve problems and function in home and school environments. Prerequisite: Psy 100.

Psy 301 (F, S) 3 hrs. cr.

Adolescent Psychology

Development of the attitudes, interests, problems and adjustment of the adolescent. A foundation for the proper evaluation of adolescent behavior. Prerequisite: Psy 100.

Psy 302 (F, S) 3 hrs. cr.

The Exceptional Child

A series of awareness experiences which deal with the added complexities an exceptional child presents to a regular classroom teacher. Includes characteristics of the exceptional child, resources in the community and legislation which determines school policy. Prerequisite: Psy 300 or Psy 301.

Psy 305 (F, S) 4 hrs. cr.

Developmental Psychology

Various aspects of human development from conception, infancy, childhood, transience to adolescence will be examined, including, physical, emotional, social and cognitive development. Emphasis will be given to theoretical frameworks and their practical implications. Cross-cultural variety will be included wherever appropriate. Prerequisites: Psy 100. No credit will be given if Psy 300 or Psy 301 have been completed.

Psy 310 (F, S) 3 hrs. cr.

Educational Psychology

Psychological problems involved in education and the practical application of psychological principles of teaching. Special emphasis on measurement, the nature of learning and the environmental influences of behavior. Prerequisite: Psy 100.

Psy 320 (F, S) 3 hrs. cr.

Applied Statistics for the Behavioral and Natural Sciences

Includes descriptive and inferential techniques. Emphasis on the analysis and interpretation of data. Prerequisites: Psy 100 and Math 110, 130 or 131.

Psy 325 (S) 3 hrs. cr.

Computers in the Behavioral Sciences

Applications of computers in the behavioral sciences with an emphasis on statistical analysis, data collection and report generation. Prerequisite: Psy 320.

Psy 330 (F, S) 5 hrs. cr.

Experimental Psychology

The research process is the foundation for knowledge in the field of psychology. Laboratory course that stresses the acquisition of basic skills in conceiving and carrying out research, as well as analyzing results and writing reports in a professionally acceptable manner. Prerequisite: Psy 325.

Psy 341 (F) 3 hrs. cr.

Social Psychology

Introduction to the study of individuals' thoughts, feelings and behaviors as they are influenced by their social environment, including interpersonal, intragroup and intergroup influences. Prerequisite: Psy 100.

Psy 382 (S) 3 hrs. cr.

Introduction to Behavior Management

Techniques of modifying human behavior through principles developed by learning psychology. Emphasis on design and implementation of behavioral strategy in the laboratory as well as practical settings. Prerequisite: Psy 100.

Psy 411 (S) 3 hrs. cr.

Psychology of Sensation and Perception

Includes classical and modern psychophysical techniques. The physiology of various sensory system, e.g. vision and audition, are examined in order to appreciate the nature of perception. Prerequisite: Psy 100.

Psy 412 (F, S) 3 hrs. cr.

Measurement and Evaluation in Education and Psychology

Theory and problems of measurement and evaluation. Practice in analyzing and interpreting test results and in preparing test items of various types. Prerequisite: Psy 310 or consent of instructor.

Psy 422 (S) 3 hrs. cr.

Theories of Personality

Survey of major contemporary theories of personality, issues of personality assessment and current research. Prerequisite: Psy 100 and junior standing.

Psy 432 (S) 3 hrs. cr.

Abnormal Psychology

Recognition and classification of the systems of mental disorders, specifying causes and possible therapeutic techniques. Extensive use of the American Psychiatric Association's Diagnostic and Statistical Manual of Mental Disorders. Prerequisite: 7 hours of psychology or permission of instructor.

Psy 435 (F) 3 hrs. cr.

Clinical Psychology

Survey of history, current methods, guild issues and future developments. Seminar format with considerable student participation. Prerequisites: Junior standing and 15 hours of psychology.

Psy 442 (F) 3 hrs. cr.

Physiological Psychology

Structure and function of the nervous system from the individual neuron to the behavior of the organism. The biological basis of movement, sleep, homeostasis, sexual behavior, emotion, learning, language and abnormal behavior will be examined from an ontogenetic and phylogenetic perspective. Prerequisite: Psy 100.

Psy 450 (S) 3 hrs. cr.

Psychology of Human Resources

An interdisciplinary approach to traditional areas of human resource management/organizational psychology, including group interaction, communication, interviewing, compensation and benefits and legal environment. Experimental and theoretical methods will be used. Prerequisite: Psy 100 or MM 350 or permission of instructor.

Psy 451 (S) 3 hrs. cr.

Learning, Memory and Cognition

Survey of the major principles and current research on such topics as classical conditioning, operant conditioning, memory systems, attentional processes, artificial intelligence and psychology-law. Prerequisite: Psy 330.

Psy 452 (F) 3 hrs. cr.

History and Systems of Psychology

Historical antecedents and their effects on contemporary scientific psychology. Prerequisite: Psy 330 or consent of instructor.

Psy 460 (Demand) 3 hrs. cr.

Advanced Research Projects

Advances the research skills in psychology beyond what is learned in Psy 330. Students will conceive, design, gather and analyze the data and write up a naturalistic observation, a survey or an experiment of their own choosing. Students will function as the sole investigator or as a member of a team. The final research project can serve as a pilot study for the students' senior thesis as well as provide a project they can present at a professional research conference. Prerequisite: Psy 330 or permission of the instructor.

Psy 471 (F) 3 hrs. cr.

Individual Testing

Practice in the administration and interpretation of individually administered intelligence tests, including the Stanford Binet and the three Wechsler tests. Prerequisite: Psy 320 or Psy 412. Offered only by request. Contact the department head.

Psy 474 (S) 3 hrs. cr.

Educational-Psychological Testing

Psycho-educational assessment techniques, including educational, intellectual and psychomotor. Emphasis on translating assessment data to remedial programs.

Psy 480 (F) 2 hrs. cr.

Senior Seminar

For senior psychology majors. Information and experiences helpful in making decisions about and preparing for careers, emphasizing preparation for either graduate school or baccalaureate level employment are presented. Students become familiar with the professional interests and activities of the psychology department faculty in preparation for selecting senior thesis topics.

Psy 481 (S) 2 hrs. cr.

Senior Thesis

With a faculty supervisor the student designs and conducts a research project resulting in a written thesis and an oral presentation. Prerequisite: Psy 480.

Psy 498 (Demand) 1-3 hrs. cr.

Seminar in Psychology

Specialized knowledge and/or current research in psychology. Topics vary by interest and demand. Number of weekly meetings equal to credit hours granted. Prerequisite: Junior-senior standing and consent of instructor. Some seminars are marked (H) in the class schedule and are intended for honors students. Other students may enroll in honors seminars with consent of instructor.

Psy 499 (Demand) 1-3 hrs. cr.

Independent Study

Course structured by adviser with approval of department head. Prerequisite: Advanced standing in major field. Registration must be approved by adviser and department head.



School of Technology

Aviation

**Computer Aided
Drafting & Design**

**Computer Assisted
Manufacturing Technology**

Computer Information Science

Criminal Justice

Dental Hygiene

Environmental Health

Law Enforcement

Medical Technology

Military Science

Nursing

Paramedic

Pre-Engineering

Preprofessional

Prepharmacy

Radiologic Technology

School of Technology

School Dean

Donald L. Seneker
Police Academy 113, 625-9328

Degrees and Majors

Bachelor of Science

Computer Information Science
Criminal Justice Administration
Environmental Health Technology
Management Technology (in conjunction
with the School of Business)
Medical Technology
Nursing

Associate of Science

Computer Aided Drafting and Design
Computer Analysis
Computer Assisted Manufacturing
Technology
Computer Programming
Dental Hygiene
Environmental Health Technology
Law Enforcement
Nursing
Pre-engineering
Radiologic Technology

Associate of Arts (Preprofessional)

General (Paramedic)
Prepharmacy

Certificate (one year)

Computer Science and Information
Systems

Certificate (less than 30 hours, offered through Continuing Education)

Basic Police Recruit
Emergency Medical Technician
Emergency Medical Technician-
Paramedic

Options and Emphases:

Computer Information Science
As a Second Teaching Field
Computer Science Information
Systems

Minors: (See departments)

Computer Information Systems
Computer Science
Criminal Justice Administration
Military Science

Role

The School of Technology is one of the four major instructional entities of Missouri Southern. As such, it offers quality instruction by and under, the leadership of professional educators who also have the advantage of a background of actual work experience in business, industry, health care and government. This instruction is further enhanced by

utilizing qualified individuals from business and the professions in the community as guest lecturers and part-time instructors.

Although the courses offered by the departments of the School of Technology in the various curricula are usually specifically career oriented toward a specialized field, the staff of these departments recognize the necessity of providing an understanding of the relationships between careers and society; therefore, courses from the fine arts, humanities and natural sciences, as well as courses to refine a student's ability to read, write, speak and think, are a required part of each curriculum. As a result, the students majoring in the various curricula in the School of Technology are an integral part of the entire student body.

All courses offered in the School of Technology are designed to provide students with the background or some portion of the background, to enable them to enter the employment field and to meet requirements imposed by any certifying and licensing examinations that may be required in the field.

The School of Technology also recognizes that in many respects the community is also a classroom. Therefore, a number of curricula include courses that are offered by other educational agencies. In some courses, area facilities are used as laboratory resources with students utilizing them under the direct supervision of regular college instructional personnel.

The School of Technology offers curricula leading to the B.S., A.S. and A.A. degrees and to one-year certificates. Programs of shorter duration required for licensure or certification also are offered, often in conjunction with the Division of Continuing Education. In addition, numerous courses and workshops are offered to meet specific and often rapidly emerging demands of business, industry and public service.

All departments work closely with advisory committees made up of persons from business, industry, government and the professions. Input from the advisory committees aids the faculty of the various departments in maintaining relevancy of course and curriculum content and identifying special needs that can be addressed through continuing education programs.

Goals

The goals of the School of Technology are:

1. to provide opportunities for students to prepare for a broad range of established and emerging careers;
2. to maintain and develop curricula which provide the opportunity for students to obtain the background in liberal arts and sciences so they may appreciate their heritage and contemporary society and become a contributing member of their society;
3. to provide programs in the most cost effective method possible, that are cognizant of contemporary requirements of career fields and which provide best available preparation for emerging requirements;
4. to provide opportunities and encouragement for faculty and staff to remain current and conduct research in their respective disciplines;
5. to provide instructional facilities and equipment essential to the maintenance of academically excellent instruction;
6. to provide a variety of supportive functions that serve a variety of area needs;
7. to offer quality programs and in areas where required, maintain program content necessary for special accreditation;
8. to offer a variety of continuing education programs to meet special needs and demands;
9. to encourage faculty to provide consultation services and otherwise serve as resources for the area;
10. to advise people, including students and potential students, regarding knowledge, skills and abilities required to enter and succeed in various career fields;
11. to assist faculty to meet and maintain eligibility for special certification required in numerous programs.

Aviation

Police Academy 113, 9328

The Aviation Program is offered in affiliation with the Mizzou Aviation Company of Joplin, Missouri.

For additional information contact:
Mr. Donald L. Seneker
Office: Police Academy 113
Phone: 625-9328

Computer Aided Drafting and Design (CADD)

Ummel Technology Building 112, 625-9567

Faculty Bartholet, Karimi

The computer aided drafting and design curriculum leads to an associate of science degree in CADD. The curriculum prepares individuals to enter employment as manual drafters and CAD technicians in the fields of manufacturing, civil, architecture or construction.

The requirements for the associate of science degree in drafting and design provide a broad base of technical and Core Curriculum courses. Computer aided drafting and design hardware and software are used to supplement traditional manual instruction in all courses. Built into the curriculum is an emphasis on both low-end and high-end P.C. based CAD software. As the students study the various fields within drafting, they are given opportunities to apply theory through the various CAD software packages available within the department.

The department also functions as an internationally recognized authorized training center for AUTODESK software. This allows each student to be exposed to the latest CAD technology and the application of international standard systems such as A.N.S.I. and I.S.O.

Student internships and independent studies allow the student to join the real world while in school and provide invaluable references for job placement later. Professional faculty maintain close ties with area industries to assure that high quality and currently used technology is taught.

Students who complete the A.S. degree in CADD may continue their education by pursuing a baccalaureate degree in management technology with an emphasis in business or computer integrated manufacturing (CIM), which opens the door into the ground floor of an exciting new field. CIM applications are now unfolding throughout both American and International industry.

Associate of Science Degree in Computer Aided Drafting and Design

	Semester	Hours
Core Requirements (p. 36)	26	
CADD Requirements	42	
CADD 110 Introductory Drafting	3	
CADD 115 Intro to Computer Aided Drafting	3	
CADD 120 Descriptive Geometry*	3	
CADD 130 Machine Drafting*	3	
CADD 202 Tool Design		
OR		
CADD 204 Mech Design*	3	
CADD 210 Technical Illustration*	3	
CADD 220 Architectural Drafting		
OR		
CADD 330 Computerized Machine Design *	3	
CADD 230 Survey and Mapping		
OR		
CADD 310 Computer Automated Process Planning *	3	
CADD 260 Computer Aided Drafting*	3	
CAMT 100 Intro to Machine Tool Processes	3	
CAMT 150 Modern Manufacturing Processes	3	
Electives (at least 9 hours)		
CAMT 160 Inspection and Gaging*	2	
CAMT 200 Computer Manufacturing Processes*	3	
CAMT 210 Computer Animation in Industry*	3	
CAMT 220 Fundamentals of Robotics*	3	
CAMT 240 Industrial Materials	3	
CAMT 250 Computer Assisted Manufacturing*	3	
CAMT 330 Quality Control and Reliability	3	
CADD 298 Special Topics in Drafting and Design*	1-3	
CADD 490 Internship in Drafting and Design*	1-8	
CADD 498 Seminar in Drafting and Design*	1-3	
CADD 499 Independent Study*	1-3	
Comp 105 Intro to Micro Use	3	
Comp 115 Computing I	3	
Comp 120 Computing II	3	

Comp 200	Advanced Personal Computing w/graphics	3
CIS 360	Interactive Computer Graphics	3
		68

*See course description for prerequisites.

Suggested Order of Study

Associate of Science Degree Major Code 5303 Computer Aided Drafting and Design Major

Freshman Year

1st Semester	Course	Hours
CADD 110	Intro to Drafting	3
CADD 115	Intro to Comp Aided Draft	3
Math 112	Trigonometry	3
CAMT 100	Intro Mach Tool Proc	3
CORE	[Humanities or Fine Arts]	3
CORE	[Psy 120 College Orient]	1
		16
2nd Semester	Course	Hours
CADD 120	Descriptive Geometry	3
CADD 130	Machine Drafting	3
CAMT 150	Modern Manufac Processes	3
CORE	[Eng 101 Comp I]	3
Comm 101	Oral Comm	3
CORE	[HPER 101 Physical Activity]	1
CORE	[HPER 103 Lifetm Wellness]	2
		18

Sophomore Year

1st Semester	Course	Hours
CADD 202 or 204	Tool Des or Mech Des	3
CADD 230	Survey and Mapping	
OR		
CADD 310	Comp AutoProcess Plan	3
CORE	[Phys 100 Fund of Phys Sci]	5
Technical Electives		6
		17
2nd Semester	Course	Hours
CADD 210	Technical Illustration	3
CADD 260	Computer Aided Drafting	3
CADD 220	Architectural Drafting	
OR		
CADD 330	Comp Machine Design	3
CORE	[Psy 100 or Soc 110]	3
CORE	[Hist 110 or 120 or PSc 120]	3
Technical Elective		3
		18

[Department Recommendation]
(Prerequisites)

For additional information contact:
Mr. Francis Bartholet
Office: Ummel Technology Building 112
Phone: 625-9567

Computer Assisted Manufacturing Technology (CAMT)

Ummel Technology Building 115, 625-9327

Faculty Carlson, Karimi

The department offers an associate of science degree. The requirements of this degree will provide a progressive and flexible technical education which will assist in securing employment in rapidly changing technological fields. Students who complete this degree have the option to pursue a baccalaureate degree in management technology, with an emphasis in computer integrated manufacturing (CIM).

A variety of courses in this program emphasize the utilization of computers and various software which enrich the skills acquired by the students to compete in this ever-changing age of modern technology. These include: Computer Numerical Control, Introduction to CADD, Fundamentals of Robotics, Computer Animation in Industry, Computer Assisted Manufacturing and Computerized Production Planning and Control Systems. General education course work in mathematics, physical science, English, history and communications will give the student a total education.

The courses in the computer assisted manufacturing technology curriculum are designed to provide the students with applications-oriented training in both basic and advanced aspects of technology. The course work is a combination of lecture and labs. This allows for instruction in equipment such as a computer numerical control machining center and an industrial robot. The lab session enables the student to apply information learned in lecture and also allows for individual innovation. Students have received recognition in world-class competition for innovative developments in robotics.

Professional faculty interact with local industry to insure that instruction is current with the latest technological developments. This interaction of faculty and involvement of an individual in Society of Manufacturing Engineers Student Chapter provides students with excellent contacts for internships and employment.

Associate of Science in Computer Assisted Manufacturing Technology

	Semester Hours
Core Requirements (See p. 36)	25
Computer Assisted Manufacturing Technology Requirements	36
CAMT 100 Intro to Machine Tool Processes	3
CAMT 150 Modern Manufacturing Processes	3
CAMT 200 Computer Numerical Processes*	3
CAMT 220 Fundamentals of Robotics* OR	
CAMT 210 Computer Animation in Industry*	3
CAMT 240 Industrial Materials*	3
CAMT 250 Computer Assisted Manufacturing*	3
CADD 110 Introductory Drafting	3
CADD 115 Introduction to CADD	3
CADD 310 Computerized Prod Plan and Control Systems*	3
Math 112 Trigonometry	3
Manufacturing Technology Electives (at least 6 hours)	6
CADD 204 Mechanical Design*	3
CADD 330 Computer Machine Design*	3
CAMT 499 Independent Study in Manufacturing Tech	1-3
CAMT 498 Seminar in Manufacturing Technology	1-3
CAMT 490 Internship in Manufacturing Technology	1-8
CAMT 298 Special Topics in Manufacturing Technology*	1-8
CAMT 160 Inspection and Gaging*	2
CAMT 330 Quality Control and Reliability*	3
CADD 202 Tool Design*	3
CADD 260 Computer Aided Drafting*	3
Any other CAMT or CADD courses	61

*See course descriptions for prerequisites.

Suggested Order of Study

Associate of Science Degree

Major Code 5399

Computer Assisted Manufacturing Technology Major

Freshman Year

1st Semester		Hours
Course		
CAMT 100	Intro Mach Tool Proc	3
CAMT 150	Modern Manu Processes	3
CADD 110	Intro Drafting	3
Math 130	College Algebra	
OR		
Math 030	Intermediate Algebra	3
CORE	[Humanities & Fine Arts]	3
CORE	[Psy 120 College Orient]	1
		16

2nd Semester

CAMT 200	Comp Numerical Control	3
CADD 115	Intro to CADD	3
Math 112	Trigonometry	3
CORE	[Eng 101 Comp I]	3
CORE	[Comm 100 Oral Comm]	3
CORE	[HPER 101 Physical Activity]	1
CORE	[HPER 103 Lifetm Wellness]	2
		18

Sophomore Year

1st Semester		
CAMT 220	Fund of Robotics	
OR		
CAMT 210	Comp Anim in Industry	3
CAMT 240	Industrial Materials	3
CORE	(Hist 110/Hist 120/PSc 120)	3
CORE	(Phys 100 Fund of Phys Sci)	5
Technical Electives		3
		17

2nd Semester

CAMT 250	Comp Assisted Manu	3
CADD 310	Comp Prod Plan & Con Sys	3
CORE	[Psy 100 or Soc 110]	3
Technical Electives or Internship		3
		12

For additional information contact:

Mrs. Sheryl Carlson

or Mr. Mushabbar Karimi

Office: Ummel Technology Building 115

Phone: 625-9327

Computer Information Science

Matthews Hall 223, 625-9383

Faculty Oakes - Head, Earney, Herr, Kelley, Kemm, Mays, Tunnell

The computer information science (CIS) department provides opportunities for a broad education in the many aspects of computer hardware and software. The

faculty's main objective is to offer courses of instruction which develop a thorough understanding of methods for using computer technology in the design and implementation of solutions to complex management, scientific, and engineering problems. Within this context, the department offers the following curricula options:

- Bachelor of Science in CIS - Information Systems
- Bachelor of Science in CIS - Computer Science
- Minor in CIS - Information Systems
- Minor in CIS - Computer Science
- Associate of Science in CIS - Information Systems
- Associate of Science in CIS - Computer Science
- One Year Certificate of Achievement.

The bachelor of science alternatives prepare the student for graduate school or entry level jobs such as system programmer, system analyst, application programmer, or network administrator. A minor or associate of science provides the student pursuing some other major with a credential and expertise in computing, an enhancement which is becoming increasingly important in almost every area of science, education, business and the arts.

The information systems option is distinguished by selected CIS and business classes which develop the student's understanding of an organization's information requirements and procedures for designing an information system which will facilitate the management of the organization. The computer science option, in contrast, requires that the student take CIS and mathematics classes which develop an expertise in applied mathematics and the theoretical foundations of computer science. Such knowledge is required to design and implement computer solutions for a wide range of problems encountered in science and engineering.

The nature of computer information science is such that a student selecting this major should enjoy and have a talent for solving problems.

The effectiveness of the CIS curricula is measured by the success of our graduates. Their average starting salaries are among the highest when compared to other majors, and placement records indicate that they have enjoyed an excellent placement rate. Many hold positions as middle and upper-level managers for a wide range of organizations, and several have earned graduate degrees.

Bachelor of Science in CIS Information Systems Major

Core Requirements (p.35) (51*) 45

CIS Core 43

Comp 110	Programming I	3
Comp 210	Programming II	3
Comp 230	Report Program Generation (RPG)	3
Comp 234	Business Data Processing Techniques (COBOL)	3
Comp 302	Concepts of Infor Systems and Data Comm (WI)	3
CIS 305	Microcomputer Applications	3
CIS 321	Interactive RPG/400	3
CIS 334	Advanced Structured COBOL	3
CIS 335	Programming in C	3
CIS 345	Computer Networks	3
CIS 350	Data Structures	3
CIS 400	Computer Colloquium	1
CIS 410	Systems Analysis and Design	3

CIS 425 Database Management Systems (WI) 3

CIS 450 Operating Systems (WI) 3

Business Core (qualifies for a minor in business) 24

Acct 201	Principles of Accounting I	3
Acct 202	Principles of Accounting II	3
Econ 201	Principles of Economics (Macro)	3
Econ 202	Principles of Economics (Micro)	3
Econ 350	Financial Management I	3
GB 321	Business Statistics I	3
MM 300	Principles of Marketing	3
MM 350	Principles of Management	3

Math Core 3

Math 130 or above 3

Professional Electives (as approved by adviser) 6

General Electives 7

Total 128

*Business and math courses in major requirements satisfy 6 hours of the Core Curriculum.

Bachelor of Science in CIS Computer Science Major (Option 1)

Core Requirements (p.35) (51*) 43

CIS Core 40

Comp 110	Programming I	3
Comp 210	Programming II	3
Comp 234	Business Data Processing Techniques (COBOL)	3
CIS 305	Microcomputer Applications	3
CIS 330	Assembly Language	3
CIS 334	Advanced Structured COBOL	3
CIS 335	Programming in C	3
CIS 345	Computer Networks	3

CIS 350	Data Structures	3
CIS 360	Computer Graphics	3
CIS 400	Computer Colloquium	1

CIS 425 Database Management Systems (WI) 3

CIS 430 Introduction to Artificial Intelligence 3

CIS 450 Operating Systems (WI) 3

Math Core (qualifies for a minor in math) 21

Math 150	Calculus I	5
Math 250	Calculus II	5
Math 260	Calculus III	5
Math 300	Fund of Math Thought	3
Math 371	Introduction to Operations Research (WI)	3

Physics Core 5

Phys 151 Elem College Physics 5

Professional Electives (as approved by adviser) 9

General Electives 10

Total 128

* Math and physics courses in major requirements satisfy 8 hours of the Core Curriculum.

Bachelor of Science in CIS Computer Science Major (Option 2)*

Core Requirements (p. 35) (51**) 43

CIS Core 33

Comp 110	Programming I	3
Comp 210	Programming II	3
Comp 234	Business Data Processing Techniques (COBOL)	3

CIS 335 Programming in C 3

CIS 345 Computer Networks 3

CIS 350 Data Structures 3

CIS 360 Computer Graphics 3

CIS 425 Database Management Systems (WI) 3

CIS 430 Introduction to Artificial Intelligence 3

CIS 450 Operating Systems (WI) 3

CIS Electives Numbered 305 and above 3

CIS Electives Numbered 305 and above 3

CIS Electives Numbered 305 and above 3

CIS Electives Numbered 305 and above 3

Math Core 33

Math 150 Calculus I 5

Math 250 Calculus II 5

Math 260 Calculus III 5

Math 300 Fund of Math Thought 3

Math 350 Intro to Numerical Analysis OR

Math 431 Numerical Analysis 3

Math 351 Linear Algebra 3

Math 371 Intro to Operations Research (WI) 3

Math Electives - 320 and above 6

Math Electives - 320 and above 6

Math Electives - 320 and above 6

Math Electives - 320 and above 6

Math Electives - 320 and above 6

Math Electives - 320 and above 6

Math Electives - 320 and above 6

Math Electives - 320 and above 6

Math Electives - 320 and above 6

Math Electives - 320 and above 6

Math Electives - 320 and above 6

Math Electives - 320 and above 6

Math Electives - 320 and above 6

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* This option also qualifies for a bachelor of science in mathematics. It is listed as the computational mathematics alternative in the mathematics section of the catalog.

** Math, chemistry, and physics courses in major requirements satisfy 8 hours of the Core Curriculum.

*** Must include one from each (excluding Chem 100, Phys 100, Phys 120, Phys 140, Phys 180, Phys 300).

Information Systems Minor

CIS Core	15
Comp 110 Programming I	3
Comp 230 Report Program Generation (RPG)	
AND	
CIS 321 Interactive RPG/400	
OR	
Comp 234 Business Data Processing Techniques (COBOL)	
AND	
CIS 334 Advanced Structured COBOL	6
CIS 302 Concepts of Info Systems & Data Comm (WI)	3
CIS 410 Systems Analysis and Design	3
Professional Electives	6
(as approved by minor adviser)	
Total	21

Computer Science Minor

CIS Core	12
Comp 110 Programming I	3
Comp 210 Programming II	3
CIS 350 Data Structures	3
CIS 335 Programming in C	3
Professional Electives	9
(as approved by minor adviser)	
Total	21

Associate of Science in CIS Information Systems Major

Core Requirements (p. 36) (25-26*)	19-20
Computer Core	24
Comp 110 Programming I	3
Comp 210 Programming II	3
Comp 230 Report Program Generation (RPG)	3
Comp 234 Business Data Processing Techniques (COBOL)	3
Comp 302 Concepts of Info Systems and Data Comm (WI)	3
CIS 305 Microcomputer Applications	3
CIS 321 Interactive RPG/400	3
CIS 334 Advanced Structured COBOL	3
Math Core	3
Math 130 or above	3

Business Core	9
Acct 201 Principles of Acct I	3
Acct 202 Principles of Acct II	3
Econ 202 Principles of Economics (Micro)	3
General Electives	8-9
Total	64

*Business and math courses in major requirements satisfy 6 hours of the Core Curriculum.

Associate of Science in CIS Computer Science Major

Core Requirements (p. 36) (26*)	18
Computer Core	15
Comp 110 Programming I	3
Comp 210 Programming II	3
CIS 305 Microcomputer Applications	3
CIS 335 Programming in C	3
CIS 350 Data Structures	3
Math Core	10
Math 150 Calculus I	5
Math 250 Calculus II	5
Physics Core	5
Phys 151 Elementary Physics	5
Professional Electives	9
(as approved by adviser)	
General Electives	7
Total	64

* Math and physics courses in major requirements satisfy 8 hours of the Core Curriculum.

One Year Certificate of Achievement

Eng 101 Comp I	3
Math 130 or higher	3
Comp 105 Intro to Micro Use	
OR	
CIS 305 Micro Applications	3
Comp 110 Programming I	3
Comp 210 Programming II	3
Comp 230 Report Program Generation (RPG)	
OR	
Comp 234 Business Data Processing Techniques (COBOL)	3
CORE Electives	6
General Electives	6
Total	30

Suggested Order of Study

Bachelor of Science in CIS Information Systems Major

Freshman Year	
1st Semester	
Course	Hours
Comp 110 Programming I	3
Math 131 Finite Math	3
Psy 120 College Orientation	1
CORE [Eng 101 Comp I (WI)]	3
CORE [Psy 100 Gen Psychology]	3
CORE [HPER 101 Physical Activity]	1
CORE [HPER 103 Lifetm Wellness]	2
	16

2nd Semester	
Comp 210 Programming II	3
Econ 201 Prin of Economics (Macro)	3
CIS 305 Microcomputer Applications	3
CORE [Eng 102 Comp II (WI)]	3
CORE [Bio 101 General Biology]	4
	16

Sophomore Year	
1st Semester	
CIS 335 Programming in C	3
Acct 201 Prin of Accounting I	3
Econ 202 Prin of Economics (Micro)	3
CORE [Comm 100 Oral Comm]	3
CORE [Phys 100 Fund of Phys Sci]	5
	17

2nd Semester	
CIS 345 Computer Networks	3
CIS 350 Data Structures	3
Acct 202 Prin of Accounting II	3
GB 321 Business Statistics	3
General Elective	3
	15

Junior Year	
1st Semester	
Comp 234 Bus DP Tech (COBOL)	3
Econ 350 Financial Management I	3
MM 300 Prin of Marketing	3
CORE [Area 2 C.]	3
CORE [Hist 110 U.S. History]	3
Professional Elective	3
	18

2nd Semester	
Comp 230 Rpt Prog Gen (RPG)	3
Comp 302 Info Sys/Data Comm (WI)	3
CIS 334 Adv Structured COBOL	3
MM 350 Prin of Management	3
CORE [PSc 120 Gov't U.S./Sta/Loc]	3
	15

Senior Year	
1st Semester	
CIS 321 Interactive RPG/400	3
CIS 410 Systems Analysis & Design	3
CIS 450 Operating Systems (WI)	3
CORE [Hist 120 U.S. History]	3
General Elective	3
	15

2nd Semester		
CIS 400	Computer Colloquium	1
CIS 425	Database Mgmt Sys (WI)	3
CORE	[Area 5 A.]	3
CORE	[Area 2 A.]	3
CORE	[Area 2 B. Literature]	3
Professional Elective		3
		16

Bachelor of Science in CIS Computer Science Major (Option 1)

Freshman Year		
1st Semester		
Course		Hours
Comp 110	Programming I	3
Math 150	Calculus I	5
Psy 120	College Orientation	1
CORE	[Eng 101 Comp I (WI)]	3
CORE	[Psy 100 Gen Psychology]	3
CORE	[HPER 103 Lifetm Wellness]	2
		17

2nd Semester		
Comp 210	Programming II	3
Math 250	Calculus II	5
CORE	[Eng 102 Comp II (WI)]	3
CORE	[Bio 101 General Biology]	4
CORE	[HPER 101 Physical Activity]	1
		16

Sophomore Year		
1st Semester		
CIS 335	Programming in C	3
CIS 305	Microcomputer Applications	3
Math 260	Calculus III	5
CORE	[Comm 100 Oral Comm]	3
CORE	[Hist 110 U.S. History]	3
		17

2nd Semester		
CIS 345	Computer Networks	3
CIS 350	Data Structures	3
Math 300	Fund of Math Thought	3
CORE	[Area 2 A.]	3
General Elective		3
		15

Junior Year		
1st Semester		
Comp 234	Bus DP Tech (COBOL)	3
CIS 430	Intro to Artificial Intelligence	3
Math 371	Intro to Oper Research (WI)	3
Phys 151	Elem Coll Physics I	5
CORE	[Hist 120 U.S. History]	3
		17

2nd Semester		
CIS 334	Adv Structured COBOL	3
CIS 425	Database Mgmt Sys(WI)	3
CORE	[PSc 120 Gov't: U.S./Sta/Loc]	3
CORE	[Area 2 C.]	3
Professional Elective		3
		15

Senior Year		
1st Semester		
CIS 450	Operating Systems (WI)	3
CORE	[Area 5 A.]	3
CORE	[Econ 180 Amer Econ Sys]	3
Professional Elective		3
General Elective		3
		15

2nd Semester		
CIS 330	Assembly Language	3
CIS 360	Computer Graphics	3
CIS 400	Computer Colloquium	1
CORE	[Area 2 B. Literature]	3
Professional Elective		3
General Elective		3
		16

Bachelor of Science in CIS Computer Science Major (Option 2)

Freshman Year		
1st Semester		
Course		Hours
Comp 110	Programming I	3
Math 150	Calculus I	5
Chem 101	General Chemistry I	5
Psy 120	College Orientation	1
CORE	[Eng 101 Comp I (WI)]	3
		17

2nd Semester		
Comp 210	Programming II	3
Math 250	Calculus II	5
Phys 250	General Physics I	5
CORE	[Eng 102 Comp II (WI)]	3
CORE	[HPER 101 Physical Activity]	1
		17

Sophomore Year		
1st Semester		
Comp 234	Bus DP Tech (COBOL)	3
CIS 335	Programming in C	3
Math 260	Calculus III	5
CORE	[Comm 100 Oral Comm]	3
CORE	[Hist 110 U.S. History]	3
		17

2nd Semester		
CIS 345	Computer Networks	3
CIS 350	Data Structures	3
Math 300	Fund of Math Thought	3
CORE	[Psy 100 Gen Psychology]	3
CORE	[HPER 103 Lifetm Wellness]	2
CORE	[Area 2 A.]	3
		17

Junior Year		
1st Semester		
CIS 430	Intro to Artificial Intelligence	3
Math 371	Intro to Oper Research (WI)	3
CORE	[Bio 101 General Biology]	4
CORE	[Hist 120 U.S. History]	3
CORE	[Area 2 C.]	3
		16

2nd Semester		
CIS 425	Database Mgmt Sys (WI)	3
Math 350	Intro to Numerical Analysis	3
CORE	[Area 5 A.]	3
CORE	[PSc 120 Gov't: U.S./Sta/Loc]	3
Math	Elective	3
		15

Senior Year		
1st Semester		
CIS 450	Operating Systems (WI)	3
Math 351	Linear Algebra	3
CORE	[Econ 180 Amer Econ Sys]	3
Chem or Phys Elective		3
General Elective		3
		15

2nd Semester		
CIS 360	Computer Graphics	3
CORE	[Area 2 B. Literature]	3
CIS	Elective	3
Math	Elective	3
General Elective		3
		15

Associate of Science Information Systems Major

Freshman Year		
1st Semester		
Course		Hours
Comp 110	Programming I	3
Math 131	Finite Math	3
Psy 120	College Orientation	1
CORE	[Eng 101 Comp I (WI)]	3
CORE	[Area 2 A.]	3
CORE	[Area 4 A.]	3
		16

2nd Semester		
Comp 210	Programming II	3
Acct 201	Prin of Accounting I	3
Comp 230	Rpt Prog Gen (RPG)	3
CORE	[HPER 103 Lifetm Wellness]	2
CORE	[Phys 100 or Bio 101]	4-5
		15-16

Sophomore Year		
1st Semester		
Comp 234	Bus DP Tech (COBOL)	3
CIS 321	Interactive RPG/400	3
Acct 202	Prin of Accounting II	3
Econ 202	Prin of Economics (Micro)	3
CORE	[HPER 101 Physical Activity]	1
CORE	[Comm 100 Oral Comm]	3
		16

2nd Semester		
Comp 302	Inf Systems/Data Comm (WI)	3
CIS 305	Micro Applications	3
CIS 334	Adv Structured COBOL	3
General Electives		7-8
		16-17

Associate of Science in CIS Computer Science Major

Freshman Year		
1st Semester		
Course		Hours
Comp 110	Programming I	3
Math 150	Calculus I	5
Psy 120	College Orientation	1
CORE	[Eng 101 Comp I (WI)]	3
CORE	[Econ 180 Amer Econ Sys]	3
CORE	[HPER 103 Lifetm Wellness]	2
		17

2nd Semester		
Comp 210	Programming II	3
Math 250	Calculus II	5
Phys 151	Elem Coll Physics I	5
CORE	[Comm 100 Oral Comm]	3
CORE	[HPER 101 Physical Activity]	1
		17

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Sophomore Year

1st Semester		
CIS 335	Programming in C	3
CORE	[Area 4 A.]	3
Professional Electives		6
General Elective		3
		15

2nd Semester

CIS 305	Micro Applications	3
CIS 350	Data Structures	3
CORE	[Area 2 A.]	3
Professional Elective		3
General Electives		3
		15

[Department Recommendation]

For additional information contact:

Dr. Jack L. Oakes
Office: Matthews Hall 223
Phone: 625-9683

Criminal Justice Administration

Police Academy 102, 625-9302

Faculty Spurlin-Director, Mosher, Richards, Seneker, Terry, Whittle, Williams, Wolf

The department offers two degrees, the bachelor of science in criminal justice administration and the associate of science in law enforcement. Since many of the jobs in these fields have special background and physical requirements, students considering one of these majors are required to schedule an interview with the director of the programs before enrolling.

The criminal justice activities of the College are a vital and working part of the law enforcement effort in Southwest Missouri and adjacent states. The Regional Criminalistics Laboratory is housed in the Police Academy building and actual evidence is evaluated by the criminalists there who testify in court as expert witnesses as needed. Also housed in the academy is a complete photographic laboratory, with both automated and color equipment.

Missouri law requires new officers to obtain "basic training" in a certified "Regional Police Academy." Missouri Southern operates the regional academy for this portion of Missouri and many students choose to take their "Police Basic Training" at the Academy while attending college, to make them even more employable upon graduation.

Visitors to the modern Mills Anderson Police Academy building are usually impressed by the constant and varied activities going on there. College students mingle in classes and on breaks with working law enforcement officers from the community, paramedics, emergency medical technicians, firefighters and others taking training in the building.

Another unusual feature of the building is the modern indoor firearms range in the basement, where police officers, students and others are introduced to weapons skills under the guidance of qualified range masters. And, while there are other criminal justice programs in the nation, this one is perhaps unique in the combination of the many "real world" activities going on with which the College serves the community in a practical sense. This works to the advantage of the pre-service college student who is able to take advantage of the facilities and expertise of the faculty and staff working at these important jobs. Missouri Southern's graduates generally return for special seminars and training to keep them updated on recent changes in technology and legal subjects. The Academy is a busy place with interested and challenged students working with experienced and dedicated staff.

A bachelor's degree in criminal justice administration prepares the student for many different graduate programs such as law school. It also prepares the student for careers in law enforcement, juvenile justice, corrections, probation and parole, private or industrial security, federal investigative agencies and related positions. Many of these positions have requirements relating to physical condition and integrity of personal background with which the student should become familiar.

The College also offers the associate of science in law enforcement page 150.

Bachelor of Science in Criminal Justice Administration

	Semester Hours
Core Requirements (p. 35)	51
Criminal Justice Requirements	26
LE 100	Introduction to Law Enforcement 3
LE 110	Police Organization and Administration 2
LE 150	Interview and Report Writing 3
LE 210	Criminal Procedures 3
LE 250	Criminal Law 3
LE 290	Police Supervision and Management 3

Select one from the following:

CJAd 230	Introduction to Security	3
CJAd 325	Physical Security	3
CJAd 330	Loss Prevention Techniques	3
		3

Select one from the following:

CJAd 320	Probation and Parole	3
CJAd 412	Correctional Practices	3
		3

Select one from the following:

CJAd 410	Juvenile Procedures	3
CJAd 411	Juvenile Corrections	3
		3

The student must also select a minimum of 21 credit hours from the following list of major course electives: (Students may not count classes that were selected in the above area.)

LE 180	Basic Police Academy*	6
LE 200	Criminal Investigation I	3
LE 225	Patrol Procedures	3
LE 245	Law Enforcement Photography	3
LE 298	Special Topics*	1-8
CJAd 230	Introduction to Security	3
CJAd 210	Basic Photography	3
CJAd 325	Physical Security*	3
CJAd 260	Legal & Technical Aspects of Firearms	3
CJAd 300	Criminal Investigation II	3
CJAd 301	International Justice Systems	3
CJAd 310	Traffic Accident Invest and Control	3
CJAd 320	Probation and Parole*	3
CJAd 330	Loss Prevention Techniques*	3
CJAd 431	Administration of Security Systems*	3
CJAd 340	Basic Color Photography*	3
CJAd 350	Fish and Game Enforcement	3
CJAd 400	Homicide Investigation*	3
CJAd 410	Juvenile Procedures*	3
CJAd 411	Juvenile Corrections*	3
CJAd 412	Correctional Practices	3
CJAd 450	Criminal Evidence*	3
CJAd 490	Internship in Criminal Justice Administration* 4-8	
CJAd 498	Seminar in Criminal Justice Administration*	1-3
CJAd 499	Independent Study*	1-3

*See course descriptions for prerequisites.

The major in criminal justice administration also requires the student to complete 15 hours of classwork in the supportive area:

Soc 110	Intro to Sociology	3
Psy 100	General Psychology	3
Computer Literacy Requirement		3
Adviser Approved Electives		6

15

General electives selected with adviser approval among which must be sufficient "upper division" courses (courses numbered at the 300 or 400 level) to complete the College's requirement for a minimum 40 upper-division hours. A minor is highly recommended.

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Minor in Criminal Justice Administration

The minor consists of 21 hours of course work which includes: LE 100 Introduction to Law Enforcement, LE 210 Criminal Procedures, LE 250 Criminal Law and 12 additional hours of LE or CJAd courses, nine of which must be upper division.

Suggested Order of Study

Bachelor of Science Degree

Major Code 2105

Criminal Justice Administration Major

Freshman Year

1st Semester		Hours
Course		
LE 100	Intro to Law Enforcement	3
LE 110	Police Org & Admin	2
CORE	[Eng 101 Comp I]	3
Computer Literacy Requirement		3
CORE	[Comm 100 Oral Comm]	3
CORE	[Psy 120 College Orient]	1
CORE	[HPER 101 Physical Activity]	1

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2nd Semester

LE 150	Interview and Report Writing	3
CORE	[Eng 102 CompII]	3
CJAd	Required course	3
Math 110	Intro College Math or higher	3
CORE	[Bio 101 General Biology]	4
CORE	[HPER 103 Lifetime Wellness]	2

18

Sophomore Year

1st Semester		
LE 210	Criminal Procedures	3
CORE	[Hist 110 U.S. History]	3
CORE	[Phys 100 Fund of Phys Sci]	5
CORE	[Soc 110 Intro to Sociology]	3
CJAd	Required Course	3

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2nd Semester		
LE 250	Criminal Law	3
LE 290	Police Supvsn & Management	3
Psy 100	[General Psychology]	3
CORE	[Econ 180 Amer Econ Sys]	3
Elective	[A minor is suggested]	3
CORE	[Literature]	3

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Junior Year

1st Semester		
CJAd	Required Course	3
CORE	Elective [International Stu]	3
Elective	[Supportive Area]	3
CORE	[PSc 120 Gov't: U.S/Sta/Loc]	3
CORE	[Elective-Fine Art]	3

15

2nd Semester		
CJAd	Elective	3
CORE	[Fine Art]	3
Elective	Supportive Area	3
CORE	[Hist 120 U.S. History]	3
Elective	[A minor is suggested]	3

15

Senior Year

1st Semester		
CJAd	Elective	3
CJAd	Elective	3
CJAd	Elective	3
Elective	[A minor is suggested]	3
Elective	[A minor is suggested]	3

15

2nd Semester		
CJAd	Elective	3
CJAd	Elective	3
CJAd	Elective	3
Elective	[A minor is suggested]	3
Elective	[A minor is suggested]	3

15

[Department Recommendations]

All electives must be approved by a CJAd adviser prior to enrollment.

For additional information contact:

Jack G. Spurlin
Office: Police Academy 101
Phone: 625-9651

Dental Hygiene

Ummel Technology Building 101, 625-9379

Faculty Scorse - Director, Crnic, Karst, Strait, White

The dental hygienist is a dynamic health care professional who is the only member of the dental health team, other than the dentist, licensed to provide direct care to the patient. The diverse duties of the dental hygienist are rewarding and include oral prophylaxis (cleaning); exposing, processing and mounting radiographs; collecting and evaluating medical history information;

performing head and neck screening examinations; and applying agents for the prevention of decay. Other important and challenging functions include assessing the condition of the periodontium (supporting structures of the teeth) and providing periodontal (gum) therapy including root planing and curettage, applying desensitizing and antimicrobial agents and administering local infiltration anesthesia and nitrous oxide/oxygen analgesia. The dental hygienist also acts as a dental health educator and is responsible for teaching patients to prevent dental disease and for providing nutritional counseling.

Dental hygiene employment opportunities are numerous and vary greatly. They include general practice and specialty dental offices; federal, state, county and city health clinics; public schools; hospitals; dental schools; industrial clinics; the armed services; and research institutions.

Missouri Southern offers an associate of science degree in dental hygiene. Upon satisfactory completion, graduates are eligible to take the National Board Examination and practical examinations required for licensure in Missouri and other states. This program is accredited by the American Dental Association.

Admission to Missouri Southern does not automatically grant admission to the dental hygiene program. In addition to meeting admission requirements for the College, candidates must apply for admission to the department of dental hygiene prior to April 1. Applications are reviewed by the Selection Committee for Dental Hygiene and consideration is given to demonstrated scholastic ability and test scores, references and results of a personal interview with the dental hygiene faculty. Applicants are encouraged to submit the necessary information by March 1 so that interview appointments can be scheduled for the middle of March.

Evidence of satisfactory completion of the prerequisites, which include general zoology, intermediate algebra (or higher algebra) and English composition, should be presented. Individuals may be accepted if they have not completed these prerequisites; however, admission is contingent upon the completion of these courses with a "C" or above during the summer prior to entrance into the program.

Enrollment is limited and all applicants are admitted contingent upon the completion of physical and dental examinations and the rendering of an acceptable health status. Students are admitted to the dental hygiene program only in the fall of each year.

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Interested individuals are encouraged to contact the Director of Dental Hygiene for more specific information regarding admissions criteria.

In addition to established fees for all college students, the following are minimum costs incurred by dental hygiene students: \$600 for uniforms, safety glasses, gloves, books and graduation pins; \$800 for instruments; approximately \$600 for licensure exams which will vary depending on state(s) in which license is desired; approximately \$60 for ADHA student membership dues and liability insurance; and variable expenses for transportation to off campus clinical training sites and meals.

The associate of science in dental hygiene requires a minimum of 79 credit hours in addition to prerequisite courses. All courses in the suggested order of study must be completed in the prescribed sequence. Course grades of "C" or above in dental hygiene and supporting science courses are necessary for retention in the dental hygiene program.

Associate of Science Degree in Dental Hygiene

	Semester Hours
Core Requirements (p. 36)	25
(10 hours satisfied by prerequisites)	
Dental Hygiene Requirements	61
DH 101 Fundamentals of Dental Hygiene I	4
DH 102 Fundamentals of Dental Hygiene II*	4
DH 140 Dental Morphology	1
DH 150 Oral Histology and Embryology	3
DH 160 Dental Radiology	2
DH 190 Clinical Dental Hygiene I*	3
DH 200 Dental Health Education	3
DH 210 Perio-Pathology	3
DH 220 Dental Materials	3
DH 290 Clinical Dental Hygiene II*	5
DH 310 Nutrition	2
DH 320 Pharmacology	2
DH 330 Ethics and Community Dentistry*	3
DH 390 Clinical Dental Hygiene III*	5
Bio 231 Medical Microbiology*	5
Bio 240 Radiation Biology*	3
Bio 306 Human Physiology and Anatomy*	5
Chem 100 Introductory Chemistry*	5
Soc 110 Intro to Sociology	3

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*See course descriptions for prerequisites

Suggested Order of Study

Associate of Science Major Code 5203 Dental Hygiene Major

Prerequisites

Bio 121	General Zoology	4
CORE	[Eng 101 Comp I]	3
Math 030	Inter Algebra (or higher)	3
		10

Freshman Year

Course		Hours
DH 101	Fund of Dental Hygiene I	4
DH 140	Dental Morphology	1
DH 150	Oral Histology & Embr	3
Bio 306	Human Phys & Anatomy	5
Chem 100	Introductory Chemistry	5
		18

Spring Semester

DH 102	Fund of Dental Hygiene II	4
DH 160	Dental Radiology	2
DH 220	Dental Materials	3
DH 310	Nutrition	2
Bio 231	Medical Microbiology	5
Bio 240	Radiation Biology	3
		19

Summer Session

DH 190	Clinical Dental Hygiene I	3
DH 210	Perio-Pathology	3
		6

Sophomore Year

Course		Hours
DH 200	Dental Health Education	3
DH 290	Clinical Dental Hygiene II	5
DH 320	Pharmacology	2
Psy 100	General Psychology	3
CORE	[Comm 100 Oral Comm]	3
CORE	[HPER 103 Lifetm Wellness]	2
		18

Spring Semester

DH 330	Ethics & Comm Dentistry	3
DH 390	Clinical Dental Hygiene III	5
CORE	[Humanities or Fine Arts]	3
CORE	[Hist 110/Hist 120 /PSc 120]	3
CORE	[HPER 101 Physical Activity]	1
Soc 110	Intro to Sociology	3
		18

[Department Recommendation]

For additional information contact:

Sandra A. Scorse, D.D.S.

Office: Technology Building 102

Phone: 625-9379 / 625-9600 / 625-9711

Environmental Health Technology

Reynolds Hall 313, 625-9731

Faculty Adams - Coordinator, Tillman

The College offers the four-year bachelor of science in environmental health with two options and a two-year associate of science degree.

Option I

This bachelor of science degree requires three academic years of study at Missouri Southern preceded or followed by successful completion of three trimesters at the Water and Wastewater Division of Crowder College, Neosho, Mo. The student holds membership in only one student body at a time. At Missouri Southern the student pays the same fees as any other student if residency requirements have been met.

Option II

This bachelor of science degree requires four complete academic years at Missouri Southern, including a semester internship. Plans for the internship should be made with the student's adviser during the spring semester of the junior year.

The associate of science degree is in affiliation with the Water and Wastewater Technical Division of Crowder College, Neosho, Mo. The combination of Missouri Southern requirements that are basic to all combined associate degrees, the specific courses required for the associate degree in environmental health technology, plus completion of a minimum of three trimesters of approved study at the Water and Wastewater Technical Division of Crowder College will qualify the student for the associate of science degree. The student may complete the requirements at either school first, but is a member of only one student body at a time.

Bachelor of Science Environmental Health Technology Major

	Semester Hours
Core Requirements (p. 35) 51*	39
Biology and Environmental Health	
Core	34
Bio 101 General Biology	4
Bio 112 Botanical Survey	3
Bio 122 Zoological Survey	3

Bio 231	General & Medical Microbiology	5
Bio 290	Research Methods in Biology	2
Bio 306	Human Phys & Anatomy	
OR		
Bio 431	Animal Physiology	5
EHT 312	Environmental Biology	4
EHT 370	Environmental Health	
EHT 372	Environmental Reg and Program Adm	4

Mathematics and Physical Science Requirements 30

Math 140	College Algebra and Trigonometry	5
Chem 101	General Chemistry I	5
Chem 102	General Chemistry II	5
Chem 201	Analytical Chemistry I	5
Chem 300	Introduction to Modern Organic Chemistry	5
Phys 151	Elementary College Physics	5

College Computer Requirement

Bio 303	Computer Applications in Biology	
OR		
Approved Computer Course		2-3

Option I

Water and Wastewater Management

Water and Wastewater Technical School	30
Upper Division Hours Awarded	20
	135-136

Option II

Institutional and Community Health

Select approved courses to complete a 30 hr. block from the following. The block must include EHT 450 Internship in Environmental Health.

Bio 240	Radiation Biology	3
Bio 361	Parasitology	4
Bio 402	General Ecology	4
Bio 481	Aquatic Ecology	4
EHT 298	Selected Topics in Environmental Health	1-8
EHT 373	Solid Waste Management	2
EHT 375	Vector Control	2
EHT 377	Community Sanitation	4
EHT 380	Epidemiology	2
EHT 385	Food, Milk and Consumer Protection	4
EHT 450	Internship in Environmental Health	1-8
EHT 483	Environmental Assessment	2
EHT 498	Seminar in Environmental Health	1-3
EHT 499	Problems in Environmental Health	1-3
Geol 300	Environmental Geology	4
		135-136

Majors satisfy the writing intensive (WI) requirement by completing ENG 101 and 102 (or their equivalent) and three WI classes in environmental health, biology or a supporting area. See page 35 for Writing Intensive requirements.

*Required courses in biology, chemistry, mathematics and physics satisfy major requirements and 12 hrs. of the Core Curriculum.

Associate of Science in Environmental Health Technology

	Semester Hours
Core Requirements (p. 36)* 21-22	
Biology & Environmental Health Core 8-9	
Bio 101 General Biology	4
Bio 231 General & Medical Microbiology	5
OR	
EHT 312 Environmental Biology (if WWTS completed)	4
Physical Science Requirement 10	
Chem 101 General Chemistry I	5
Chem 102 General Chemistry II	5
Water and Wastewater Technical School	30
	69-71

* 4 hrs. satisfied by required biology.

Suggested Order of Study

Associate of Science Degree Major Code 5299

Environmental Health Major

**Prescribed 48 week course at Water and Wastewater School-30 Hrs.

Freshman Year

1st Semester	Course	Hours
	Chem 101 General Chemistry I	5
	Bio 101 General Biology	4
	Math 140 Algebra & Trigonometry	5
	CORE [Psy 120 College Orient]	1
	CORE [HPER 101 Physical Activity]	1
		16

2nd Semester

	Chem 102 General Chemistry II	5
	EHT 312 Environmental Biology	4
	CORE [Eng 101 Comp I]	3
	CORE [Literature or Fine Arts]	3
	CORE [Hist 110 or PSc 120]	3
		18

Summer Session

	CORE [Psy 100 or Soc 110]	3
	Comm 100 Oral Comm	3
	CORE [HPER 103 Lifetm Wellness]	2
		8

[Department Recommendations]

For additional information contact:

Dr. Wayne Adams
Office: Reynolds Hall 313A
Phone: 625-9731
or
Mr. David Tillman
Office: Reynolds Hall 317D
Phone: 625-9698

**This work may be taken prior to entering Southern or after completing work on the Crowder College campus.

Bachelor of Science Degree

Major Code 1299

Environmental Health Technology Major

Freshman Year

1st Semester	Course	Hours
	Bio 101 General Biology	4
	CORE [American Cultural Stu]	3
	CORE [Eng 101 Comp I]	3
	CORE [HPER 101 Physical Activity]	1
	CORE [Psy 120 College Orient]	1
	Math 140 College Algebra & Trig	5
		17

2nd Semester

	Bio 112 Botanical Survey (Bio 101)	3
	CORE [Eng 102 Comp II]	3
	CORE [American Cultural Studies]	3
	CORE [Humanities and Fine Arts]	3
	CORE [HPER 103 Lifetm Wellness]	2
	CORE [Humanities and Fine Arts]	3
		17

Summer Session

	CORE [Behavioral Science]	3
	CORE [American Cultural Stu]	3
		6

Sophomore Year

1st Semester

	Bio 122 Zoological Survey (Bio 101)	3
	Bio 231 Gen/Med Microbio (Bio 101)	5
	Chem 101 Gen Chemistry I (Math 140)	5
	CORE [Comm 100 Oral Comm]	3
		16

2nd Semester

	Chem 102 Gen Chem II (Chem 101)	5
	Bio 303 Comp Appl in Biology (consent)	
	OR	
	Approved computer course	2-3
	CORE [American Cultural Stu]	3
	Phy 151 Elem Col Phy (Math 140)	5
		15-16

Summer Session

	CORE [International Cultural Stu]	3
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150 / Law Enforcement, Medical Technology

Junior Year

1st Semester

Bio 306	Hum Phys & Anat (Bio 121 or consent)	
OR		
Bio 431	Animal Physiology (Bio 331)	5
EHT 312	Environmental Biology (Bio 101 & consent)	4
Chem 201	Analytical Chemistry I (Chem 102)	5
CORE	[Humanities & Fine Arts]	3
		17

2nd Semester

Bio 290	Res Meth in Bio (Bio 112/122)	2
Chem 300	Intro to Mod Org Chem (Chem 102)	5
EHT 372	Env Reg & Pro Adm (EHT 312 & 370 or consent)	4
EHT 370	Environmental Health (Bio 231 or consent)	4
		15

Senior Year

Option I Water and Wastewater Management

Three trimesters at the Water and Wastewater Division of Crowder College. This work may be taken prior to entering Missouri Southern.

Option II Institutional and Community Health

Select approved courses to complete a 30 hr. block from the following. The block must include EHT 450 Internship in Environmental Health.

Bio 240	Radiation Biology (Chem 101 or consent)	3
Bio 361	Parasitology (Bio 122)	4
Bio 402	General Ecology (Bio 112 & 122 or consent)	4
Bio 481	Aquatic Ecology (Bio 122)	4
EHT 298	Sel Topics in Envir Health (Bio 101, 112 & 122)	1-8
EHT 373	Solid Waste Management (EHT 312 & 370 or consent)	2
EHT 375	Vector Control (EHT 312 & 370 or consent)	2
EHT 377	Community Sanitation (EHT 312 & 370 or consent)	4
EHT 380	Epidemiology (Bio 290, EHT 312 & 370 or consent)	2
EHT 385	Food, Milk & Consumer Protection (Bio 231, EHT 312 & 370 or consent)	4
EHT 450	Internship in Environmental Health (consent)	1-8
EHT 483	Environmental Assessment (EHT 312 & 370 or consent)	2
EHT 498	Seminar in Environmental Health (consent)	1-3
EHT 499	Problems in Environmental Health (consent)	1-3
EHT 300	Environmental Geology (Phys 100)	4
		135-136

[Departmental Recommendations]
(Prerequisites)

Program must satisfy Writing Intensive (WI) requirements page 35.

For additional information contact:

Dr. Wayne Adams
Office: Reynolds Hall 313A
Phone: 625-9731

or
Mr. David Tillman
Office: Reynolds Hall 317D
Phone: 625-9698

Law Enforcement

Police Academy 102, 625-9302

Faculty Spurlin - Head, Richards, Seneker, Terry, Williams, Wolf

The associate of science degree in law enforcement helps prepare students for entrance into police work, a field which has become highly specialized and complex at the local, state and national levels. Modern law enforcement responsibilities make academic preparation beyond the high school level essential.

The College also offers the four-year bachelor of science degree in criminal justice administration. See page 146.

Associate of Science in Law Enforcement

Semester Hours
Core Requirements (p. 36) 26
(6 Core hours are satisfied by taking the following required courses)

Law Enforcement Requirements 39

Soc 110	Introduction to Sociology	3
Elective		3
Elective		3
Computer Literacy Requirement		3
LE 100	Introduction to Law Enforcement	3
LE 110	Police Organization and Administration	2
LE 150	Interview and Report Writing	3
Elective-Adviser Approved		
LE 200	Criminal Investigation	3
LE 210	Criminal Procedures	3
LE 290	Police Supervision and Management	3
LE 250	Criminal Law	3
Psy 100	General Psychology	3
PSc 120	[Gov't: U.S./Sta/Loc]	3
HPER 220	First Aid	2

Suggested Order of Study

Associate of Science Degree

Major Code 5505

Law Enforcement Major

Freshman Year

1st Semester

Course		Hours
CORE	[Eng 101 Comp I]	3
CORE 110	Intro to College Math	3
Comp 105	Intro to Micro Comp Use	3
LE 100	Intro to Law Enforcement	3
LE 110	Police Org & Adm	2
CORE	[Psy 120 College Orient]	1
CORE	[HPER 101 Physical Activity]	1
		16

2nd Semester

Psy 100	General Psychology	3
CORE	[Phys 100 Fund of Phys Sci]	5
CORE	[Soc 110 Intro to Sociology]	3
LE 150	Interview & Report Writing	3
LE 210	Criminal Procedures	3
		17

Sophomore Year

1st Semester

CORE	[Comm 100 Oral Comm]	3
CORE	[HPER 103 Lifetm Wellness]	2
CORE	[PSc 120 Gov't: U.S./Sta/Loc]	3
LE 200	Criminal Investigation	3
Elective		3
Elective	Fine Arts Elective	3
		17

2nd Semester

Elective		3
HPER 220	First Aid	2
LE 250	Criminal Law	3
LE 290	Police Supvis & Mgmt	3
Electives	Adviser Approved	6
		17

[Department Recommendations]

For additional information contact:

Jack G. Spurlin
Office: Police Academy 101
Phone: 625-9651

Medical Technology

Reynolds Hall 210, 625-9376

Faculty Baiamonte, Mosher

The bachelor of science degree in medical technology is granted to students who complete the required program of study satisfactorily. These requirements include the basic requirements for all bachelor of science degree programs, required science and other supportive courses plus 32 hours of professional course credits. The completion of this degree is required before an individual is eligible to take the certifying examination.

Missouri Southern has affiliation agreements with the Schools of Medical Technology at St. John's Regional Medical Center, Joplin, Mo.; St. John's Regional Health Center, Springfield, Mo.; Lester E. Cox Medical Center, Springfield, Mo.; and Research Medical Center, Kansas City, Mo. If a student wishes to attend an accredited school of medical technology with which the College has no formal agreement, the Vice President for Academic Affairs can negotiate an agreement for the individual student. Students should be aware that enrollment in the professional schools is limited. Each of the professional schools has its own admission criteria and selects those students to be admitted to a class from the applicants for that class. In general, this selection is based on the academic record or demonstrated aptitude for the medical field. Students are responsible for filing their own application for admission with the professional schools. Application should be made to the professional school during the early fall of the junior year or approximately 10 months prior to the expected entrance date.

Students who are unsuccessful in gaining admission to a professional school can normally select and complete another science major with the advice of the appropriate department head.

A student may enroll in the professional courses either at the hospital-based school or through Missouri Southern, depending on the policies of the hospital-based school. Students enrolled at the hospital-based school are not considered members of the Missouri Southern student body, since the hospital-based school in such cases is considered as any other accredited institution of higher education. A student enrolling through Missouri Southern is considered a member of the College student body and is, therefore, eligible for benefits offered all students.

The weekly time requirements for the professional medical technology courses (400 level) listed are based on the minimum requirements for a course meeting for a normal academic term for a minimum of 16 weeks. Actual scheduling of classes may vary according to custom of the individual professional school to meet these minimum total hour requirements.

Bachelor of Science With a Major in Medical Technology

	Semester Hours
Core Requirements (p. 35) 51**	39
Biology Requirements	26
Bio 121 General Zoology	4
Bio 231 General & Medical Microbiology*	5

Bio 305 Genetics*	4
Bio 306 Human Physiology and Anatomy*	5
Bio 456 Immunology*	4
Either	
Bio 361 Parasitology*	4
OR	
Bio 362 Virology*	4
Chemistry Requirement	24-25
Chem 101 General Chemistry I*	5
Chem 102 General Chemistry II*	5
Chem 201 Analytical Chemistry I*	5
Chem 300 Introduction to Modern Organic Chemistry*	5
Chem 351 Biochemistry*** (4)	
OR	
Chem 421 Analytical Chemistry II* (5)	4-5
Other Requirements	16
Phys 151 Elementary College Physics I*	5
Phys 152 Elementary College Physics II*3	
Math 140 Algebra & Trigonometry	5
Comp 110 Programming I (Pascal) (3)	
OR	
Higher level computer course	3
400 Level Medical Technology Courses (at Hospital)	32
	137-138

*See course descriptions for prerequisites.
 **Required biology, physics and mathematics courses simultaneously satisfy Core Curriculum and major requirements.

***St. John's, Springfield, Mo., requires either Biochemistry or Quantitative Analysis.

Suggested Order of Study

Bachelor of Science Degree

Major Code 1223

Medical Technology Major

Freshman Year

Course	Hours
Chem 101 Gen Chem I (Algebra & Trig)	5
Math 140 Algebra and Trig	5
CORE [Eng 101 Comp I]	3
Comp 110 Programming I	3
CORE [Psy 120 College Orient]	1
	17

2nd Semester

Chem 102 Gen Chem II (Chem 101)	5
Bio 121 General Zoology	4
CORE [History 110 U.S. History]	3
CORE [Eng 102 Comp II]	3
CORE [Econ 180 Amer Econ Sys]	3
	18

Sophomore Year

1st Semester	
Chem 201 Analy Chem I (Chem 102)	5
Bio 231 Gen & Med Microbiology	5
CORE [Psy 100 or Soc 110]	3
CORE [Humanities & Fine Arts]	3
CORE [HPER 101 Physical Activity]	1
Elective [MT 200 Intro to Med Tech]	1
	18

2nd Semester

Chem 300 Mod Org Chem (Chem 102)	5
Bio 305 Genetics	4
CORE [Comm 100 Oral Comm]	3
CORE [Humanities & Fine Arts]	3
CORE [Hist 120 or 320 U.S. History]	3
	18

Junior Year

1st Semester	
Phys 151 Elem Col Phys I (Math 140)	5
Bio 306 Hum Phys & Anat (Bio 121)	5
Bio 361 Parasitology (Bio 121)	
OR	
Bio 362 Virology (Bio 231)	4
CORE [HPER 103 Lifetm Wellness]	2
CORE [Humanities & Fine Arts]	3
	19

2nd Semester

Chem 421 Analy Chem II (Chem 201)	
OR	
Chem 351 Biochemistry (Chem 300)	4-5
Phys 152 Elem Col Phys II (Phys 151)	3
Bio 456 Immunology	4
CORE [Psc 120 Gov't: U.S./Sta/Loc]	3
CORE [International Cultural Studies]	3
	17-18

Senior Year

1st Semester	
(At an approved School of Medical Technology)	
MT 401 Clinical Chemistry	10
MT 403 Hematology	6
	16

2nd Semester

(At an approved School of Medical Technology)	
MT 402 Clinical Microscopy	1
MT 404 Serology	3
MT 405 Clinical Microbiology	7
MT 406 Immunohematology	3
MT 407 Special Topics in Med Tech	2
	16

(Prerequisites)
 [Department Recommendations]

For additional information contact:

Dr. Vernon Baiamonte
 Office: Reynolds Hall 213
 Phone: 625-9541
 OR
 Dr. Melvyn Mosher
 Office: Reynolds Hall 242 and
 Police Academy 105
 Phone: 625-9733 or 625-9382

Military Science

Police Academy 109, 625-9545

Faculty Langan - Head, Rivette, Brown, Wright

Military science provides an additional dimension to a student's educational program. Students who participate in military science courses receive leadership, managerial and confidence-building training that will be of great value to them in any career they seek.

The military science program at Missouri Southern is divided into two elective programs, the Basic Course and the Advanced Course.

The Basic Course encompasses five freshman and sophomore level courses. There are no prerequisites for participating in any of the five courses offered; they may be taken in any sequence. Participants incur no military obligation by taking these courses. These courses are similar to all other college courses in that they carry academic credit. Basic Course subjects provide students with an understanding of the United States Army. Subjects taught in the Basic Course include leadership, survival, marksmanship, rappelling, land navigation, world conflicts, terrorism and history of ROTC. These courses will also qualify students for the Advanced Course in the event that they elect to continue in the military science program.

The Advanced Course includes the junior and senior courses. The primary objective is to prepare qualified students for commissioned officer service in the United States Army, the United States Army Reserve or the Army National Guard. All Advanced Course students receive \$100 per month for up to 10 months each year while enrolled in the Advanced Course. They also will attend ROTC Advanced Camp, normally during the summer between the junior and senior years. Compensation is received for travel and for time spent at camp. Advanced Course students, upon successful completion of the Advanced Course, are commissioned Second Lieutenants. They may choose to serve either three years in the Active Army or three to six months in the Active Army and fulfill the remainder of their commitment in the Army Reserve or Army National Guard.

All students enrolled in the Advanced Course, prior to being commissioned as officers in the Army, are required to take at least one course in each of the following areas: behav-

ior, written communication skills, military history, mathematical reasoning and computer literacy.* Course work in management and national security policy are recommended but not required. The military history requirement is satisfied by taking Hist 400.

Two and three year scholarships are awarded annually on a competitive basis. Any full-time college student may apply. All scholarships pay for tuition and mandatory fees. They also pay the student \$100 a month during each academic year and a book stipend of \$200 per semester.

Students with at least two academic years remaining in their course of study can complete the Basic Course requirements by participating in Basic Camp. Pay and allowances are received for Basic Camp participants. (See MS 298)

All students desiring to enroll in the Advanced Course who are not U.S. citizens must have department permission prior to enrolling.

Students with prior military service or military science training, including Junior ROTC, may be eligible for advanced placement in the military science program. A minor in military science may be obtained by completion of not less than 18 hours of MS courses to include: MS 301, 302, 411, 412, Hist 400.

Textbooks are supplied for all ROTC classes. Uniforms are not required for freshmen. Advanced Course students are furnished all required uniform items.

*To determine suitable courses, contact the military science department.

Nursing

Associate of Science Degree
Kuhn Hall 210, 625-9322

Faculty Box - Head, Elgin, Eller, Jacobs, Ketchum, Ross, Shippee

The Nursing program provides intensive preparation for an exciting career. Upon satisfactory completion of the associate degree in nursing, the graduate is eligible to apply to write the examination for licensure as a registered nurse (R.N.), barring restrictions stated in the state of Missouri Nursing Practice Act 335.066, 1,2 (1)-(14) of the state of Missouri. This program is accredited by Missouri State Board of Nursing and National League for Nursing.

In addition to admission to Southern, applicants are required to apply for admission to the department of nursing in Kuhn Hall. Applications should be submitted prior to December 15 preceding the fall semester in which the applicant wishes to enter. Each completed application is reviewed by the department of nursing Selection Committee. Criteria for selection include: ACT scores or college GPA, nursing entrance test, science courses and references. Class size is limited, therefore, admission is competitive. A list of projected expenses is available from the department of nursing.

Core Curriculum requirements should be selected with nursing adviser approval. Nursing courses must be completed in the prescribed sequence. Supporting science courses, in addition to nursing courses, must be completed with a grade of "C" or above as designated in the course descriptions for progression in the nursing curriculum.

The nursing program is based on the nursing process, development and wellness-illness. Individual and family development, safety and security, mobility, body processes, body defenses and the steps of the nursing process serve as organizing themes in the nursing courses. As a program outcome, students are expected to achieve the roles and competencies of the associate degree nurse. Legal, ethical, national and international issues, cultural diversity, communication, pharmacology, nutrition and rehabilitation are integrated in the nursing courses. Computer assisted instruction and interactive video are included in classroom and clinical teaching. Students provide direct care to patients under the supervision of nursing faculty in a variety of clinical settings.

Associate of Science Degree in Nursing

	Semester Hours
Core Requirements (p. 36)	25
(Additional satisfied by required courses)	
Nursing Requirements	52
(See course descriptions for prerequisites)	
Nurs 100	Introduction to Nursing Process 6
Nurs 110	Nursing Process with the Developing Family* 9
Nurs 130	Nursing Process in Psychiatric-Mental Health Nursing* 4
Nurs 220	Nursing Process with Adults I (WI)* 9
Nurs 240	Nursing Process with Adults II* 9

Bio 306	Human Physiology and Anatomy*	5
Chem 100	Introduction to Chemistry*	5
Bio 231	Fundamentals of Medical Microbiology*	5

77

*See course descriptions for prerequisites.

Suggested Order of Study

Associate of Science Degree

Major Code 5208

Nursing Major

Freshman Year

1st Semester

Course		Hours
Nurs 100	Intro to Nursing Process	6
Bio 306	Hum Phys & Anat*	5
CORE	[Eng 101 Comp I]	3
Math 30	Inter Algebra (or Math 130)	3
		17

*Bio 121 must be completed prior to Bio 306.

*Bio 306 must be completed prior to or concurrent with Nurs 100.

2nd Semester

Nurs 110	Nurs Proc with Dev Fam	9
Chem 100	Intro to Chemistry **	5
Psy 100	General Psychology	
OR		
Soc 110	Intro to Sociology	3
		17

**Chem 100 must be completed prior to or concurrent with Nurs 110.

Summer Session

Nurs 130	Nurs Proc in Psychiatric-Mental Health Nursing	4
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Sophomore Year

1st Semester

Nurs 220	Nurs Proc with Adults I (WI)	9
Bio 231	Fund of Med Microbio ***	5
CORE	[Literature or Fine Art]	3
		17

***Bio 231 must be completed prior to or concurrent with Nurs 220.

2nd Semester

Nurs 240	Nurs Proc with Adults II	9
CORE	[HPER 101 Physical Activity]	1
CORE	[HPER 103 Lifetm Wellness]	2
CORE	[Comm 100 Oral Comm]	3
CORE	[PSc 120 or Hist 110]	3
		18

For additional information contact:
Department of Nursing
Office: Kuhn Hall 210
Phone: 625-9322

Nursing

Bachelor of Science Degree

Kuhn Hall 210, 625-9322

Faculty Box - Head, Ayton, Singleton

The bachelor of science in nursing program (BSN) is designed exclusively for Registered Nurses. The goals of the BSN program are to: graduate professionals who are generalists prepared to function in various health care settings; prepare graduates to deliver nursing care to individuals, families and communities; provide a foundation for graduate education; and expand practice in the roles of the professional nurse.

Registered nurses are admitted to the College as transfer students or graduates of MSSC's ADN Program. In addition to the College's admission and transfer requirements, applicants to the BSN program must show evidence of: graduation from a state-approved and National League for Nursing (NLN) accredited associate degree or diploma nursing program; cumulative GPA of 2.5 or above on a 4.0 scale; current registered nurse licensure or eligibility in the state of Missouri; junior level standing with 60+ credit hours (maximum of 64 credit hours from junior or community colleges may be transferred); three satisfactory professional nurse references and evidence of current nursing practice.

Spring semester graduates may be admitted conditionally as graduate nurses in the fall semester. These graduates must meet the same admission requirements as registered nurses. Employment in nursing practice is recommended. Evidence of licensure as a registered nurse following the writing of the NCLEX-RN will remove conditional status.

The National League for Nursing Mobility Profile II examination is a requirement for admission and validates 28 credits hours of nursing courses previously completed at the ADN freshman and sophomore levels. Diploma graduates receive 28 credit hours for nursing courses by examination: Care of the Client during Childbearing/Care of the Child; Care of the Adult Client; and Care of the Client with Mental Disorder. The examination grants credit for junior level nursing courses in a comparable four year generic RN program.

A decision score of 100 or minus one standard deviation (-20) from the mean on the NLN Mobility Profile II, Books 1, 2 and 3; and 75 percent on the Clinical Validation Examination are criteria for admission, validation/challenge.

Selection is competitive and based on the selection criteria.

Core Curriculum requirements for the bachelor of science degree may be met prior to beginning the nursing course sequence. Students entering the program must complete the upper level courses within five consecutive years.

Applications, readmission and transfer criteria are available in the nursing department in Kuhn Hall.

Bachelor of Science Degree in Nursing

	Semester Hours
Core Requirements (p. 35)	51
Validation Examinations	28
Nursing Major Requirements	40
Nurs 300	Concepts of Professional Nursing (WI)
	3
Nurs 315	Gerontic Nursing
	3
Nurs 320	Nursing Ethics
	3
Nurs 330	Advanced Health Assessment
	5
Nurs 400	Community Health Nursing
	5
Nurs 405	Nursing and Healthcare
	3
Nurs 415	Nursing Research (WI)
	3
Nurs 430	Nursing Management and Leadership
	5
Nurs 498	Nursing Elective
	3
Bio 308	Human Pathophysiology
	4
Psy 320	Statistics
	3
Additional electives	
(include Comp 105)	9

Suggested Order of Study

Bachelor of Science Degree

Major Code 3200

Nursing Major

Two Year Option

	Semester Hours
Core Requirements	51
NLN Mobility Examination	28
Additional Electives*	9
Nursing Prerequisite:	
Bio 308 Human Pathophysiology**	4

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Junior Year

1st Semester		Hours
Course		
Nurs 300	Concepts Prof Nurs (WI)	3
Nurs 315	Gerontic Nursing	3
Nurs 330	Adv Health Assessment	5
		11

2nd Semester		Hours
Course		
Nurs 400	Community Health Nursing	5
Nurs 405	Nursing & Health Care	3
		8

Senior Year

1st Semester		Hours
Course		
Nurs 320	Nursing Ethics	3
Nurs 498	Nursing elective	3
Psy 320	Applied Statistics***	3
		9

2nd Semester		Hours
Course		
Nurs 415	Research in Nursing (WI)	3
Nurs 430	Nurs Mgmt & Leadership	5
		8

*Includes microcomputer course/validation

** See course descriptions for prerequisites

***Prerequisite: Math 110 or 130 must be completed prior to Psy 320.

One Year Option

Semester Hours		Hours
Core Requirements		51
NLN Mobility Examination		28
Additional Electives*		9
Nursing Prerequisites:		
Bio 308	Human Pathophysiology**	4
Psy 320	Applied Statistics**	3

Senior Year

1st Semester		Hours
Course		
Nurs 300	Concepts of Prof Nurs (WI)	3
Nurs 315	Gerontic Nursing	3
Nurs 320	Nursing Ethics	3
Nurs 330	Adv Health Assessment	5
Nurs 498	Nursing Elective	3
		17

2nd Semester		Hours
Course		
Nurs 400	Community Health Nursing	5
Nurs 405	Nursing & Health Care	3
Nurs 415	Research in Nursing (WI)	3
Nurs 430	Nurs Mgmt & Leadership	5
		16

*Includes microcomputer course/validation

**See course descriptions for prerequisites

ADN-BSN Option

Freshman Year

1st Semester		Hours
Course		
Nurs 100	Intro to Nursing Process	6
Bio 306	Human Phys & Anatomy*	5
CORE	[Eng 101 Comp I]	3
Math 030	Inter Algebra (or Math 130)	3
		17

2nd Semester		Hours
Course		
Nurs 110	Nurs Proc with Dev Fam	9
Chem 100	Intro to Chemistry**	5
Psy 100	General Psychology	
OR		
Soc 110	Intro to Sociology	3
		17

Summer Session		Hours
Course		
Nurs 130	Nurs Proc in Psychiatric-Mental Health Nursing	4

Sophomore Year

1st Semester		Hours
Course		
Nurs 220	Nurs Proc with Adults I (WI)	9
Bio 231	Fund of Med Microbio***	5
CORE	[Literature or Fine Art]	3
		17

2nd Semester		Hours
Course		
Nurs 240	Nurs Proc with Adults II	9
CORE	[HPER 101 Physical Activity]	1
CORE	[HPER 103 Lifetm Wellness]	2
CORE	[COMM 100 Oral Comm]	3
CORE	[PSc 120 or Hist 100]	3
		18

*Bio 121 must be completed prior to Bio 306. Bio 306 must be completed prior to or concurrent with Nurs 100.

**Chem 100 must be completed prior to or concurrent with Nurs 100.

***Bio 231 must be completed prior to or concurrent with Nurs 220.

NCLEX-RN

The associate degree graduate is eligible to write the National Council License Examination for Registered Nurses.

Junior Year

1st Semester		Hours
Course		
Bio 308	Human Pathophysiology*	4
CORE	[Eng 102 Comp II]	3
CORE	[Math 110 or above]	3
CORE	[PSc 120 or Hist 110 or 120]	3
CORE	[Literature or Fine Arts]	3
		16

2nd Semester		Hours
Course		
Psy 320	Applied Statistics	3
Comp 105	Intro to Computers	3
CORE	[Econ 180 Amer Econ Sys]	3
CORE	[International Cultural Stu]	3
CORE	[PSc 120 or Hist 110 or 120]	3
CORE	[Literature or Fine Arts]	3
		18

Meet BSN Admission Requirements

Senior Year

1st Semester		Hours
Course		
Nurs 330	Concepts of Prof Nurs (WI)	3
Nurs 315	Gerontic Nursing	3
Nurs 320	Nursing Ethics	3
Nurs 330	Adv Health Assessment	5
Nurs 498	Nursing Elective	3
		17

2nd Semester		Hours
Course		
Nurs 400	Community Health Nursing	5
Nurs 405	Nursing & Health Care	3
Nurs 415	Research in Nursing (WI)	3
Nurs 430	Nurs Mgmt & Leadership	5
		16

For additional information contact:
Department of Nursing
Office: Kuhn Hall 210
Phone: 625-9322

Preprofessional Nursing (BSN)

The preprofessional nursing program is designed to prepare students for entrance into a baccalaureate degree nursing program. The basic Core Curriculum of the College with support courses are incorporated. Completion of preprofessional course requirements does not automatically assure admission to a baccalaureate program of nursing.

The suggested lower division curriculum includes:

Year 1

Fall Semester		Hours
Course		
Bio 121	General Zoology	4
CORE	[Eng 101 Comp I]	3
CORE	[Math 130 College Algebra]	3
CORE	[Comm 100 Oral Comm]	3
CORE	[HPER 101 Physical Activity]	1
Comp 105	Intro Micro Comp	3
		17

Spring Semester

Course		Hours
Bio 306	Human Phys & Anatomy	4
CORE	[Eng 102 Comp II]	3
CORE	[Econ 180 Amer Econ Sys]	3
Chem 100	Intro to Chemistry	5
CORE	[HPER 103 Lifetm Wellness]	2
		17

Year 2

Fall Semester		Hours
Course		
Bio 211	Microbiology	5
CORE	[Fine Arts]	3
CORE	[Literature]	3
CORE	[History]	3
CORE	[Psy 100 Gen Psychology]	3
		17

Spring Semester

Course		Hours
Bio 308	Human Pathophysiology	4
CORE	[History]	3
CORE	[Political Science]	3
CORE	[International Cultural Stu]	3
Psy 305	Developmental Psychology	3
		16

** The student should meet with a nursing adviser for the proper selection of courses for particular nursing program.

For additional information contact:
Department of Nursing
Office: Kuhn Hall 210
Phone: 625-9322

Paramedic Program

Major Code 7008

In cooperation with the College's Division of Continuing Education, the School of Technology offers certificate programs preparing students to take state certifying examinations as Emergency Medical Technicians or as Paramedics. This is closely integrated with area Emergency Medical Services and hospitals. Students seeking information about these programs should check with the Director of Continuing Education for details about scheduling of the courses. The curriculum and its length varies with current Missouri state requirements.

Associate of Arts

Core Requirements		42
Bio 306	Human Physiology and Anatomy*	5
EMT Course		6
EMT-P Course		18
		71

*Satisfies Core requirements

Pre-Engineering

Reynolds Hall 208/212
625-9719/625-9540

Faculty Knapp, Phillips, Sloan

The physical science department at Missouri Southern, in cooperation with the engineering staff at the University of Missouri-Rolla and the University of Missouri-Columbia have prepared booklets describing the Cooperative Engineering Program between these schools and MSSC. These booklets list the course sequence for a student taking the first two or two and one-half years of an engineering science curriculum at Southern and planning to transfer to UMR or UMC. The plan also includes the courses the student will take at UMR or UMC to complete a B.S. degree in various engineering disciplines.

Although most of the engineering programs are standard for the first two years, there are a few differences and thus the student should meet with a pre-engineering adviser during the first semester. If a student wishes to transfer to a school other than UMR or UMC, it is suggested that the catalog of that school be reviewed for any differences in its program and the UMR or UMC outline. College catalogs are available in the Reserve area of Spiva Library. Any adviser who desires a

copy of the booklet should contact the physical science department.

		Semester Hours
Core requirements** (p. 35)		25
Pre-engineering Requirements		45
Phys 250	General Physics I*	5
Phys 260	General Physics II*	5
Phys 312	Statics*	3
Chem 101	General Chemistry I*	5
Math 150	Calculus with Analytical Geometry I*	5
Math 250	Calculus with Analytical Geometry II*	5
Math 260	Calculus with Analytical Geometry III*	5
Comp 120	Fortran****	3
Econ 201	Principles of Economics (Macro)	3
Elective	(Math or Physics)***	3
Elective	(Humanities/Social Science/Drafting/Chemistry)***	3
		70

*See course descriptions for prerequisites.

**Required math and physics courses simultaneously satisfy Core Curriculum and major requirements.

***The student should meet with a pre-engineering adviser for the proper selection depending on the field of engineering.

****UMC prefers Comp 110 and requires this for electrical and computer engineering students.

Suggested Order of Study

Associate of Science Degree

Major Code 5499

Pre-engineering Major

Freshman Year

1st Semester		Hours
Course		
CORE	[Eng 101 Comp I]	3
Math 150	Calculus I	5
CORE	[Hist 110/120 U.S. Hist]	3
Chem 101	General Chemistry I	5
CORE	[Psy 120 College Orient]	1
CORE	[HPER 101 Physical Activity]	1
		18

2nd Semester

Math 250	Calculus II	5
Phys 250	General Physics I	5
Econ 201	Prin of Economics	3
CORE	[Fine Arts/Draft/Chem II]*	3-5
		16-18

Sophomore Year

1st Semester		
Math 260	Calculus III	5
Phys 260	General Physics II	5
Comp 120	Fortran**	3
CORE	[Sociology or Psychology]*	3
CORE	[HPER 103 Lifetm Wellness]	2
		18

2nd Semester		
Math 322	Differential Eq.	3
Phys 372	Electronic Circuits	4
Phys 341	Thermal Physics (4)	
OR		
Phys 322	Classical Mechanic (3)	3-4
CORE	[Comm 100 Oral Comm]*	
AND/OR		
CORE	[Humanities/Fine Arts]	3-6
		16-17

Summer Session		
Phys 312	Statics	3

*Suggested elective (not strict requirements)

**UMC prefers Comp 110 and requires this for electrical and computer engineering students.

For additional information contact:

Dr. Russell Phillips
Office: Reynolds Hall 208
Phone: 625-9719

Preprofessional

Police Academy 113, 625-9328

Associate of Arts Degree

This curriculum is designated for Missouri Southern students to complete admission requirements for professional schools that will accept applicants who have completed approximately 60 hours.

Also, students who are completing certification requirements for paramedic programs and desire a college degree may choose this degree program.

Prepharmacy

Major Code 7007

Core Requirements* (p. 35)		14
Eng 101 and 102 English Comp**		6
Chem 101 and 102 General Chemistry**		10
Math 150	Calculus**	5
Social Sciences/Humanities**		14
Bio 306	Human Physiology and Anatomy	5
Electives		10
		64

*28 hours of Core requirements are met by UMKC School of Pharmacy minimum requirements.

**UMKC School of Pharmacy minimum requirements.

Radiologic Technology

Kuhn Hall 210, 625-9322

Faculty Beals

The associate of science degree in radiologic technology combines Core Curriculum courses, supportive courses in the behavioral sciences and natural sciences and special courses in the field of radiology including extensive clinical laboratory experiences. The clinical laboratory experiences are provided through agreements between Missouri Southern and St. John's Regional Medical Center or other accredited facilities. The student successfully completing the curriculum is eligible to write the National Registry Examinations to become a Registered Technologist.

Completion of the degree requires the completion of Core Curriculum requirements for the associate of science degree, all radiologic technology courses, Bio 306, Bio 240, Chem 100 or Phys 100 and Psy 221. Applicants whose backgrounds have not prepared them for Bio 306 must meet these prerequisites before being admitted to the program.

Special admission procedures are required for admission to this program in addition to admission to Missouri Southern. These special admission procedures should be initiated a minimum of six months before the date the student would plan to enter the program. Students may enter the program only at the beginning of the fall semester.

In addition to established fees for all college students, special fees of \$100 for the first semester and \$40 for each succeeding term, including summers, are required for enrollment in radiology courses.

Students who are already Registered Radiologic Technologists may also enter this program.

Radiological course credit will be granted to the Registered Radiologic Technologist, equal to that granted to the graduating associate of science student, at the time the Registered Radiologic Technologist starts the program. A minimum of 30 additional academic semester hours is required. This credit must include the general education requirements for the associate of science degree plus a concentration of courses in one of the subject matter areas of business (accounting and secretarial procedures or business management), behavioral sciences or natural science (concentration in either biology, chemistry or physics).

Associate of Science in Radiologic Technology

	Semester Hours
Core Requirements	25
Radiology Requirements	55
Rad 101	Introduction to Radiology* 3
Rad 111	Medical Terminology 3
Rad 121	Patient Care and Special Procedures in Radiology 3
Rad 132	Prin of Radiographic Exposure 3
Rad 142	Radiographic Pos I 3
Rad 160	Film Critique 2
Rad 170	Radiologic Physics 3
Rad 180	Practicum in Radiology 4
Rad 241	Radiographic Pos II 3
Rad 252	Radiographic Pos III 3
Rad 282	Practicum in Radiology II 2
Rad 290	Practicum in Radiology III 4
Rad 299	Advanced Radiology 3
Bio 306	Human Physiology and Anatomy* 5
Chem 100	Elementary Chemistry** 5
OR	
Phys 100	Fundamentals of Physical Science 5
Psy 221	Psychology of Personal Adjustment 3
Bio 240	Radiation Biology* 3
	79

*See course descriptions for prerequisites.

**Satisfies Core Curriculum Requirement.

Suggested Order of Study

Associate of Science Degree Major Code 5207 Radiologic Technology Major

Freshman Year

Course	Hours
Bio 306	Human Physi & Anatomy** 5
Rad 101	Intro to Radiology 3
Rad 170	Radiologic Physics 3
Rad 142	Radiographic Pos I 3
CORE	[Psy 120 College Orient] 1
CORE	[HPER 101 Physical Activity] 1
	16

Spring Semester

Math 130	College Algebra	
OR		
Math 30	Intermediate Algebra	3
Psy 100	General Psychology	3
Bio 240	Radiation Biology	3
Rad 132	Prin of Radiographic Exp	3
Rad 241	Radiographic Posi II	3
CORE	[HPER 103 Lifetm Wellness]	2
		17

Summer Semester*

Rad 160	Film Critique	2
Rad 180	Practicum in Radiology I	4
		6

Sophomore Year

Fall Semester		
Chem 100	Intro Chemistry	
OR		
Phys 100	Fund of Phys Sci	5
CORE	[Eng 101 Comp I]	3
Psy 221	Psy of Personal Adjustment	3
Rad 111	Medical Terminology	3
Rad 252	Radiographic Pos III	3
		17

Spring Semester

CORE	[Hist 110 or PSc 120]	3
CORE	[Comm 100 Oral Comm]	3
Rad 121	Pat Care & Spec Pro	3
Rad 282	Practicum in Radiology II	2
CORE	[Literature or Fine Arts]	3
		14

Summer Semester

Rad 290	Practicum in Radiology III	4
Rad 299	Advanced Radiology	3
		7

[Department Recommendations]

*Summer classes meet a minimum of 12 weeks.
**Placement in Bio 306 will depend on pre-entrance zoology test scores or completion of Bio 121.

For additional information contact:

Mr. Wiley Beals

Office: Kuhn Hall 300

Phone: 625-9323 or 625-9322

OR

Mr. Donald L. Seneker

Office: Police Academy 113

Phone: 625-9328

Course Descriptions

Aviation (Av)

Av 200 3 hrs. cr. Basic Pilot Training

An integrated course designed to meet ground school and flight training requirements for eligibility to take the Federal Aviation Administration examination for a Private Pilot Certificate. In addition to scheduled ground school classes, the course requires approximately 45 hours of dual and solo flight and check flight. Credit is awarded when the FAA certificate is obtained. Special fees and a third class medical certificate are required. Special fees for this course include plane rental and examiner's test fee. Course grade is recorded as Pass or Fail.

Computer Aided Drafting and Design (CADD)

CADD 110 (F, S) 3 hrs. cr. Introductory Drafting

Includes use of instruments, geometric construction, lettering, orthographic projection, dimensioning, sections and conventions, auxiliaries and pictorial drawings. One hr. lecture, 4 hrs. lab per week. Corequisite: CADD 115.

CADD 115 (F, S) 3 hrs. cr. Intro to Computer Aided Drafting

Computer aided drafting and the operation of a computer drafting system. Should be taken concurrently with Drafting 110 by students who have had no college drafting courses. Individuals who have a background in drafting will be able to take the course for personal or professional improvement, with consent of instructor. One hr. lecture per week, 4 hrs. lab per week.

CADD 120 (S) 3 hrs. cr. Descriptive Geometry

Practical applications of advanced projection techniques to problems in civil, structural, mechanical and architectural engineering. Manual and computer assisted projects on methods are introduced. One hr. lecture, 4 hrs. lab per week. Prerequisite: CADD 110.

CADD 130 (S) 3 hrs. cr. Machine Drafting

Detail and assembly drawings of machines and machine elements. Survey of the use of machine tools, processes and materials in the design and fabrication of machine parts. One hr. lecture, 4 hrs. lab per week. Prerequisite: CADD 110.

CADD 202 (Demand) 3 hrs. cr.

Tool Design

Principles of tool design with emphasis on the design and graphical representation of common jigs and fixtures used in the manufacturing industry using manual and computer methods. One hr. lecture, 4 hrs. lab per week. Prerequisite: CADD 130.

CADD 204 (F) 3 hrs. cr.

Mechanical Design

Principles of mechanical design with emphasis on proper selection, function and graphical representation of common machine components. Formulas, vendor catalogs and commercial computer software will be used to select components. One hr. lecture, 4 hrs. lab per week. Prerequisites: CADD 120 & 130.

CADD 210 (S) 3 hrs. cr.

Technical Illustration

Pictorial drawing with an emphasis on mechanical and architectural applications. Major topics include mechanical illustrations, exploded views and perspectives drawn manually and with a computer aided drafting system. Drawing media such as polyester film, ink, illustration board, lettering systems and air brushes will be introduced. One hr. lecture, 4 hrs. lab per week. Prerequisite: CADD 110 or consent of instructor.

CADD 220 (S) 3 hrs. cr.

Architectural Drafting

Principles of architectural design, preparing sets of working drawings, building details and use of modern construction materials for residential building. Manual and computer aided design techniques used throughout the course. One hr. lecture, 4 hrs. lab per week. Prerequisite: CADD 110 or consent of instructor.

CADD 230 (F) 3 hrs. cr.

Survey & Mapping

Theory, principles and practices of surveying and mapping as applied to construction, site plans and right-of-way planning. Use and care of survey instruments and equipment. Survey reports and computations and preliminary surveys stressed. Calculations conducted manually and with commercial computer software. One hr. lecture, 4 hrs. lab per week. Prerequisite: CADD 110 or consent of instructor.

CADD 260 (F, S) 3 hrs. cr.

Computer Aided Drafting

Preparation of drawings in mechanical, civil, architectural, structural and electronics using a computer aided drafting system. A variety of commercial CAD software packages will be used to assist the advanced student in developing skill and knowledge in the use of a CAD system to prepare drawings in one or more drafting fields. Three 1 hr. lectures per week, open labs as required. Prerequisites: CADD 110, CADD 115 and one or more drafting specialty courses from the following: CADD 130, CADD 202, CADD 220 or CADD 230. A student having industrial drafting experience may be admitted with consent of instructor if CADD 115 or equivalent industrial training course has been completed.

CADD 310 (F) 3 hrs. cr.

Computerized Production Planning and Control Systems

Theory and application of computer-automated process planning (CAPP) systems as they relate to the study of computer-integrated manufacturing (CIM). Three hrs. lecture, labs are arranged. Prerequisite: CAMT 160.

CADD 330 (S) 3 hrs. cr.

Computer Machine Design

Instruction in the principles, theory and applications of machine design utilizing the CAD workstation. Special emphasis on solid modeling and design analysis. Three hrs. lecture, labs are arranged. Prerequisite: CADD 130.

CADD 490 (Demand) 1-8 hrs. cr.

Internship in Drafting and Design

A structured work experience in drafting/design at an institution, facility or industry not directly related to Missouri Southern. The work experience will be a practical application of the student's major field of study under the direct supervision of an on-site professional who is not a Southern faculty or staff member. The on-site professionals will supervise the student's activity in the field. A faculty member will be responsible for approving the placement site and supervising the overall activities of the internship. Prerequisite: 15 hrs. of CADD & committee approval.

CADD 298 (Demand) 1-8 hrs. cr.

Special Topics Draft/Design

A special topic or topics not normally included in another drafting/design course. Prerequisites determined by the department and stipulated in a course syllabus.

CADD 498 (Demand) 1-3 hrs. cr.

Seminar in Drafting & Design

Specialized knowledge and skills related to new developments in drafting and design. Topics will vary by the semester and situation. Prerequisite: An associate degree in drafting & design or senior standing in management-technology or industrial technology.

CADD 499 (Demand) 1-3 hrs. cr.

Independent Study in Drafting & Design

Individually directed reading, research and discussions in selected areas of drafting and design for advanced majors. Scope, depth, area of concentration and credit hours will be arranged when registering for the course. Offered by arrangement. Prerequisite: 15 hrs. of drafting with 3.0 GPA and permission of instructor, department head and school dean.

Computer Assisted Manufacturing Technology (CAMT)

CAMT 100 (F, S) 3 hrs. cr.
Intro to Machine Tool Processes

The theory and safe operation of basic machine tools. Fundamental practices include: safety, basic mathematics, blue print reading, benchwork, precision measurement, metal sawing, drills and drilling, pedestal bench grinding, engine lathes, shapers, mills and pantographs. One hr. lecture, 4 hrs. lab per week.

CAMT 105 (F, S) 4 hrs. cr.
Intermediate Machine Tool Processes

An introduction to the operation of surface, cylindrical, tool and cutter grinders. Principles of inspection and gaging, applied trigonometry, tooling geometry and advanced lathe and milling practices will be covered. Two hrs. lecture, 6 hrs. lab per week. Prerequisites: CAMT 100, CADD 110, Math 130 or consent of instructor.

CAMT 150 (F, S) 3 hrs. cr.
Modern Manufacturing Process

A survey of modern manufacturing processes in which raw materials are converted into products. Introduction and application to the principles of forming, traditional and contemporary casting, molding, nontraditional machining, joining, automated assembly, flexible manufacturing and computer integrated manufacturing.

CAMT 160 (S) 2 hrs. cr.
Inspection and Gaging

Inspection, gaging and precision measurement procedures utilizing mechanical, electronic and optical measuring equipment and related math. Geometric dimensioning and tolerancing emphasized. Computer assisted process control methods are introduced and applied to specific inspection procedures. One 1-hour lecture, one 2-hour lab per week. Prerequisites: CAMT 100, CADD 110, Math 130 and Math 112 or consent of instructor.

CAMT 200 (F, S) 3 hrs. cr.
Computer Numerical Control

Basic numerical control concepts and its applications, the operation of numerical control system, numerical control programming as applied to machining applications using MDI. One hr. lecture, 4 hrs. lab per week. Prerequisites: CAMT 100, CADD 110, Math 30 or 112 or consent of instructor.

CAMT 210 (S) 3 hrs. cr.
Computer Animation For Industry

Fundamentals of computer animation on a personal computer focusing on industrial applications, such as product promotion and marketing, motion simulation of machine elements and mechanisms, and its use in presentation, training and instruction. Involves imparting movement and photorealistic appearance to geometric shapes and models. One hour lecture and 4 hrs. lab per week. Prerequisites: CADD 115 or COMP 105 or permission of the department.

CAMT 220 (F) 3 hrs. cr.

Fundamentals of Robotics

Fundamental concepts underlying robot programming and its applications in the manufacturing industry. Covers operation of an industrial robot arm, both leadthrough and textual programming, end effector design, interfacing with computers and CNC machines and control systems. One hour lecture and 4 hr. lab per week. Prerequisites: CAMT 100 or consent of instructor.

CAMT 240 (S) 3 hrs. cr.
Industrial Materials

Introduction to metallurgy and nonmetallic materials currently used in today's modern manufacturing settings. Theory and application of principles for identifying, producing, conditioning and testing materials. Laboratory activities involve both manual and computer assisted testing. One hr. lecture and 4 hr. lab per week. Prerequisite: CAMT 150.

CAMT 250 (S) 3 hrs. cr.
Computer Assisted Manufacturing

Advanced techniques of CNC & N/C programming using a completely integrated environment. Concepts of manufacturing programs being an integral part of a dynamic environment as compared to being in an isolated system. One hr. lecture, 4 hr. lab per week. Prerequisites: CAMT 200 or consent of instructor.

CAMT 298 (Demand) 1-8 hrs. cr.
Selected Topics in Manufacturing Technology

Special topics in new or emerging manufacturing technology that are not normally included in another course. Prerequisites will be specified by the department in a course syllabus.

CAMT 310 (F) 4 hrs. cr.
Manufacturing Data Processing

Designed to teach overall data processing techniques as relating to the manufacturing environment. A solid foundation of manufacturing processes and departmental structuring is required in addition to a knowledge of microcomputer usage. Two hrs. lecture, 6 hrs. lab per week. Prerequisites: CAMT 100, Comp 105 or PC DOS, CADD 115, Acct 201 or consent of instructor.

CAMT 330 (F) 3 hrs. cr.
Quality Control and Reliability

The concept of quality control and its applications. The importance of quality control, tools and techniques of SPC/SQC covering control charts used in quality control analysis, inspection and testing for quality control, process variability, product reliability and maintainability. Two hrs. lecture, 4 hrs. lab per week. Prerequisites: CAMT 100 & 160, Comp 105 or PC DOS, Math 310 or GB 321 or GB 405 or consent of instructor.

CAMT 490 (Demand) 1-8 hrs. cr.
Internship in Manufacturing Technology

A structured work experience in manufacturing technology at an institution, facility or industry not directly related to Missouri Southern. Practical application of the student's major under the direct supervision of an on-site professional who is not an MSSC faculty or staff member. A faculty member will be responsible for approving the placement site and supervising the overall activities of the internship. Prerequisite: 15 hrs. of CAMT courses and permission of a committee.

CAMT 498 (Demand) 1-3 hrs. cr.

Seminar in Manufacturing Technology

Covers specialized knowledge and skills related to new developments in manufacturing technology. Topics will vary by the semester and situation. Prerequisite: Senior standing in management-technology or an associate degree in manufacturing technology.

CAMT 499 (Demand) 1-3 hrs. cr.
Independent Study in Manufacturing Technology

Individually directed reading, research and report preparation in selected areas of contemporary manufacturing technology, for advanced majors. Scope, depth and area of concentration and credit will be arranged when enrolling in the course. Offered by arrangement. Prerequisite: Completion of required manufacturing technology courses with minimum 3.0 GPA and permission of instructor, department head and school dean.

Computer Science (Comp)

Comp 105 (F, S) 3 hrs. cr.
Introduction to Microcomputer Use

The fundamental use of microcomputers through packaged software and the microcomputer disk operating system (DOS). The student will be introduced to word processing, spreadsheets, file management, and communications tools to aid in productivity and to develop a degree of confidence in the use of microcomputers.

Comp 110 (F, S) 3 hrs. cr.
Programming I

Introduces problem analysis and program design. The emphasis is on proper programming style to include modularity and structured design. The student will learn fundamentals of programming including data types, simple input and output, selection, iteration, and array processing. The language of implementation will be Pascal. Corequisite: Math 130 or above.

Comp 115 (F, S) 3 hrs. cr.
Programming in BASIC

Introduces the BASIC programming language. The intent is to provide a service for non-majors. Problem analysis and program design will be emphasized. The student will learn syntax and language features through arrays and files. Corequisite: Math 130 or above.

Comp 120 (F) 3 hrs. cr.
FORTAN

Introduces the FORTRAN programming language and includes applications from mathematics, statistics, and engineering. Prerequisite: Math 130 or above.

Comp 200 (Demand) 3 hrs. cr.
Advanced BASIC
 Continued development of the programming and problem solving skills introduced in Comp 115. Topics covered include techniques for designing and implementing microcomputer-based menu-driven systems and methods for producing business graphics displays. Prerequisite: Comp 115 or permission of department head.

Comp 210 (F, S) 3 hrs. cr.
Programming II
 Continued development of the programming and problem solving skills introduced in Comp 110. Structured programming and modular design are emphasized. The student's knowledge of data structures is extended to include an in-depth coverage of strings, arrays, records, and files. The student is introduced to pointers, linked lists, stacks, and queues. The language of implementation is Pascal. Prerequisite: Comp 110.

Comp 230 (S) 3 hrs. cr.
Report Program Generation (RPG)
 Introduces the programming language RPG II/III/400 which is designed for quick and efficient production of business reports. Course content will include language syntax and practice in preparing, compiling, and executing applications of increasing complexity. Prerequisite: (Comp 110 or above) or consent of department head.

Comp 234 (F) 3 hrs. cr.
Business Data Processing Techniques (COBOL)
 Methods and techniques for solving business related problems using a business oriented language (COBOL). Applications may include payroll systems, inventory control systems, billing systems, sorting techniques, and file maintenance. Prerequisite: Comp 210 or consent of department head.

Comp 240 (Demand) 3 hrs. cr.
Statistical Computer Applications
 Programming techniques which are unique to the implementation of selected statistical analysis algorithms. Applications covered include quality control, data distribution analysis, parameter estimation, regression analysis, forecasting, and curve fitting. Prerequisite: Comp 210 and (Math 361 or Math 462).

Comp 298 (Demand) 1-3 hrs. cr.
Selected Topics in Computer Information Science
 Study of special topics in Computer Science and Information Systems. Each offering will be on a subject not normally included in another course. Prerequisites will be specified by the department in a syllabus.

Comp 301 (Demand) 3 hrs. cr.
Principles of Digital Computing
 Hardware and software concepts which are pertinent to the design of digital computers. Topics covered include data representation techniques, computer circuits, assemblers, compilers, loaders, I/O programming, microprocessors, memory hierarchy, memory management, and operating systems. Prerequisite: Comp 210 or above.

Comp 302 (S) 3 hrs. cr.
Concepts of Information Systems and Data Communications
 Develops understanding of an organization's information requirements and examines the design of information systems that facilitate the management of the organization. The criteria used to select appropriate hardware and software are investigated. An emphasis is placed on data communication concepts. Prerequisite: Acct 202 and (CIS 305 or MM 337) or consent of the department head.

Computer Information Science (CIS)

CIS 305 (F, S) 3 hrs. cr.
Microcomputer Applications
 For experienced users of computer systems who wish to become proficient in a variety of the most common microcomputer applications. Microcomputer based operating systems, user interfaces, word processing, spreadsheets, graphics, communications, and database management systems will be addressed. Special emphasis is placed on the configuration and customization of commercial software packages, as well as the features within these packages which provide for the automation of problem solutions. Prerequisite: (Comp 105 or above) or MM 237.

CIS 320 (Demand) 3 hrs. cr.
Operations Modeling
 Analytical and simulation techniques used in the modeling of business operations for the purpose of managerial decision support. Typical problem areas covered include scheduling, service queues, resource allocation, production planning, transportation, distribution, marketing, product mix, forecasting, bidding, portfolio analysis, etc. Prerequisite: Comp 210 or consent of instructor.

CIS 321 (F) 3 hrs. cr.
Interactive RPG/400
 On-line programming of business applications. Major topics include file creation and maintenance, structured methodologies, advanced features of RPG III/400, and the IBM AS/400 environment. Prerequisite: Comp 230 or consent of instructor.

CIS 330 (S) 3 hrs. cr.
Assembly Language
 Introduction to low-level machine architecture and assembly language programming using the IBM PC. The topics to be covered include data representation, instruction set, program logic, and problem solving. In addition to the assembly, linking, and execution of programs; debugging, optimization, and interfacing to high-level languages will be practiced. Prerequisite: One 200 level programming class.

CIS 334 (S) 3 hrs. cr.
Advanced Structured COBOL
 On-line programming of business applications utilizing CICS. File creation and maintenance (VSAM), structured methodologies, and advanced features of COBOL are major topics. Prerequisite: Comp 234 or consent of instructor.

CIS 335 (F) 3 hrs. cr.
Programming in C
 Introduction to problem solving using the C programming language. Topics will include low level architecture, data types, machine independent programming, structured design as applied to large systems of programs, and the syntax and semantics of an ANSI standard C implementation. Linking C both to assembly language and high-level languages will be considered. Prerequisite: Comp 210 or consent of instructor.

CIS 340 (Demand) 3 hrs. cr.
Computer Simulation
 Introduction to simulation languages and techniques which are used to solve many types of research problems encountered in management, science, and engineering. Topics include simulation concepts, language syntax, problem analysis, solution design, and data preparation and analysis. Prerequisite: Comp 210 and (Math 361 or Math 462).

CIS 345 (S) 3 hrs. cr.
Computer Networks
 Introduction to the hardware and software which are integrated to form a computer network. The topics covered will include data communication hardware, the seven protocol layers of the OSI ISO reference model, public networks such as Internet, and the design and management of local area networks. Prerequisite: CIS 335.

CIS 346 (Demand) 2 hrs. cr.
Teaching Computer Science in Secondary School
 Methods for teaching computer science/data processing subjects in secondary schools. It serves as part of the professional semester.

CIS 350 (S) 3 hrs. cr.
Data Structures
 Continued development of the students knowledge of data structures. This includes an in-depth coverage of pointers, linked lists, stacks, queues, binary trees, and graphs. Special emphasis is placed on the coverage of algorithms that are designed to efficiently manipulate these structures and techniques for selecting the most appropriate data structures for a given application. Prerequisite: Comp 210.

CIS 360 (S, Odd) 3 hrs. cr.
Computer Graphics
 Interactive computer graphics programming including windowing, clipping, two and three dimensional transformations, perspective projections, curved surface modeling, light, and color. The functional capabilities of computer graphics systems and their applications will be covered. Prerequisite: Math 150 and Comp 210.

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CIS 400 (S) 1 hr. cr. Computer Colloquium

Students have the opportunity to make and attend individual presentations on computer topics of current and special interest. These topics are researched and organized by the student presenters and should make use of the best available software and media tools. Supplemental topics are presented by faculty and invited area computer professionals. May be repeated once for credit. Meets 2 hours per week for 1 hour credit. Prerequisite: Upper division standing.

CIS 401 (S) 3-8 hrs. cr.

Internship in Computer Information Science
A limited number of Computer Information Science students may serve an internship of 15 to 20 hours per week for up to 16 weeks. Credit hours will be arranged through the coordinator of the internship program. The intern will work for a local, cooperating firm in a production data processing environment gaining valuable experience in programming and/or systems analysis and design. The on-site work will be supervised by a professional employee of the firm and overseen by an MSSC faculty member. Prerequisite: Upper division standing, department approval, and an overall GPA of 3.00.

CIS 410 (F) 3 hrs. cr.

Information Systems Analysis and Design
Continued development of the student's ability to analyze and design computer based management information systems. This includes an in-depth coverage of analysis and design methodologies, computer-aided software engineering tools, and project management techniques. Teamwork is emphasized. Prerequisite: Comp 302.

CIS 425 (S) 3 hrs. cr.

Database Management Systems
(Writing Intensive)
Survey of database management theories and experience in the application of database technology. An emphasis will be placed on the relational model. Functions of database management systems, data modeling, and database design are stressed. Prerequisite: Comp 234.

CIS 430 (F, Odd) 3 hrs. cr.

Introduction to Artificial Intelligence
Introduces the process of developing intelligent computer software. AI topics which are covered include knowledge abstraction and representation, heuristic search techniques, expert systems, language processing, machine learning, and meta-programming. Prerequisite: CIS 350 and Math 300.

CIS 450 (F) 3 hrs. cr. Operating Systems (Writing Intensive)

Fundamental concepts of operating system design. The emphasis is on identifying the problems that an operating system must solve and considering the range of alternative solutions which may be implemented. Topics include process management, memory management, processor management, auxiliary storage management, and security. The UNIX operating system is highlighted. Prerequisites: CIS 335 and CIS 350.

CIS 460 (Demand) 3 hrs. cr.

Programming Languages
Mechanisms and formality behind language structure, particularly as applied to some of the more modern and esoteric computer programming languages. A formal approach to syntactic analysis, grammars, and parsing techniques will lead into an introduction to automata and their relation to language and problem solving. Several diverse programming languages will be examined with example programs to be written in each. Prerequisite: Two programming language courses.

CIS 498 (Demand) 1-3 hrs. cr.

Seminar in Computer Information Science
Addresses emerging topics in computer science and management information systems. Each offering will be on a subject not normally included in another course. Prerequisite: Upper division standing with an overall GPA of 3.0 or above. Other prerequisites may be specified in each course syllabus.

CIS 499 (Demand) 1-3 hrs. cr.

Independent Study
An independent study course is structured by the adviser with approval of the department head. Prerequisite: Upper division standing with an overall GPA of 3.0 or above. Registration in the course must be approved by the advisor, the department head, and the dean of the school.

Criminal Justice Administration (CJAd)

CJAd 230 (S) 3 hrs. cr.

Introduction to Security Overview of the security industry and its role in loss prevention. Public versus private security roles for retail business, industrial and governmental protection. Basic principles such as target hardening and current problems.

CJAd 210 (F, S) 3 hrs. cr.

Basic Photography
Lecture and laboratory procedures for use of cameras, lenses, developing negatives and prints and enlarging.

CJAd 325 (S) 3 hrs. cr.

Physical Security
Physical aspects of the security industry and its role in loss prevention for retail business, industrial and governmental protection. Consideration of barriers and perimeter protection, alarm systems, computer and hazardous materials protection and survey techniques. Prerequisite CJAd 230 Introduction to Security, or instructor's permission.

CJAd 260 (F, S) 3 hrs. cr.

Legal and Technical Aspects of Firearms
History and development of firearms. The nomenclature of the most commonly used police firearms and the duties and requirements of a rangemaster. The laws concerning firearms acquisitions, ownership and use. Three hrs. lecture per week. Additional lab time arranged.

CJAd 298 (Demand) 1-8 hrs. cr.

Special Topics in Criminal Justice Administration
Course content varies and is designed to meet current needs and interests in the rapidly changing field of criminal justice administration. Precise topics are announced with prerequisites stipulated in the course syllabus.

CJAd 300 (S) 3 hrs. cr.

Criminal Investigation II
Major case investigative methods, sources of information, development of leads, methods applicable to organized crime and specific offenses.

CJAd 301 (F) 3 hrs. cr.

International Justice Systems
A study of justice systems around the world, comparing them to America's justice system. Course considers the three important components of a justice system; police, courts, and corrections. Includes cultural differences of the countries studied as they relate to their justice system.

CJAd 310 (F) 3 hrs. cr.

Traffic Accident Investigation and Control
Theory and techniques for investigation and reducing occurrence of motor vehicle accidents, collection and evaluation of physical evidence reporting. CJAd 320 (S) 3 hrs. cr. Probation and Parole Study of presentence investigation methods, predicting parole behavior, supervisory practices, legal aspects, the use of amnesty and pardons. Prerequisites: LE 100, Soc 110 or instructor's permission.

CJAd 330 (F) 3 hrs. cr.

Loss Prevention Techniques
Security techniques in loss prevention for retail business, industry, governmental protection, hotel and motel, hospital, school, transit systems and utilities. Prerequisites: CJAd 230.

CJAd 331 (Demand) 3 hrs. cr.

Administration of Security Systems
The security administrator's role in business, industrial and governmental protection. Organizing, training, managing and designing security programs. Prerequisites: CJAd 230, CJAd 325 or CJAd 330 or instructor's permission.

CJAd 340 (S) 3 hrs. cr.

Basic Color Photography
Basic color theory concepts used in the production of color transparencies and color prints. Lab fee. Prerequisite: CJAd 210 or permission of instructor.

CJAd 350 (S) 3 hrs. cr.

Fish and Game Enforcement
Problems and procedures encountered and used by conservation enforcement officers. Laws and enforcement procedures.

CJAd 400 (Demand) 3 hrs. cr.

Homicide Investigation
Legal and criminalistics concepts and procedures for the medico-legal investigation of death due to natural, accidental, suicidal or criminal cause. Prerequisite: LE 200 or permission.

CJAd 410 (F) 3 hrs. cr.
Juvenile Procedures
 Juvenile and family court procedures and substantive law as applied to the youthful offender. Procedures for juvenile officers such as collection of evidence, taking into custody and development of the case. Prerequisite: LE 210 or permission.

CJAd 411 (S) 3 hrs. cr.
Juvenile Corrections
 Overview of the design and legal requirements of juvenile correctional institutions including an analysis of the juvenile interstate compact laws and management principles of juvenile correctional institutions. Prerequisite: Soc 110.

CJAd 412 (F) 3 hrs. cr.
Correctional Practices
 History of corrections as it relates to correctional practices. In-depth study of the rights of the incarcerated inmate as well as the powers and duties of the correctional officer. Prerequisites: LE 100 or permission.

CJAd 450 (S) 3 hrs. cr.
Criminal Evidence
 Rules of evidence, admissibility, presumptions, inferences, burden of proof and exceptions to the hearsay rule. Prerequisite: LE 210, LE 250.

CJAd 490 (Arr) 4-8 hrs. cr.
Internship in Criminal Justice
 Extensive practical experience with an area criminal justice agency, subject to individual committee approval. Not open to those who have taken LE 180. Prerequisite: Junior or senior standing, CJAd major, department approval, overall GPA 2.5 and a CJAd GPA 3.2.

CJAd 498 (Demand) 1-3 hrs. cr.
Seminar in Criminal Justice
 A survey of current advances in the field. Precise topics to be announced, for upper division majors in CJAd or those who have completed the A.S. degree in law enforcement. Prerequisite: permission of instructor.

CJAd 499 (Arr) 1-3 hrs. cr.
Independent Study in Criminal Justice
 Individually directed study for advanced majors in area of criminal justice selected with adviser approval. Proposal must be approved by program director and school dean. Prerequisite: 3.5 GPA in major area or permission.

Dental Hygiene (DH)

DH 101 (F) 4 hrs. cr.
Fundamentals of Dental Hygiene I
 Introduction to fundamental theories, principles and procedures necessary to provide dental hygiene services. Theories and principles are applied in clinical laboratory setting. Two hrs. lecture, 6 hrs. lab per week.

DH 102 (S) 4 hrs. cr.
Fundamentals of Dental Hygiene II
 Continuation of DH 101 with further enrichment of skills necessary to perform preventive oral health services. Theories and principles are applied in clinical laboratory setting. Two hrs. lecture, 6 hrs. lab per week. Prerequisites: DH 101 with minimum grade of "C" or instructor's permission.

DH 140 (F) 1 hr. cr.
Dental Morphology
 Detailed study of morphology of deciduous and permanent teeth in relation to fossal cusps, grooves, ridges, roots and the relationship of form and function. Occlusion and malocclusion are studied according to their relationship to dental health. A self-instructional program supplemented by one hr. lecture per week.

DH 150 (F) 3 hrs. cr.
Oral Histology and Embryology
 Study of the gross and microscopic development of the teeth, supportive structures of the teeth and embryology and anatomy of head and neck region. Two hrs. lecture, 3 hrs. lab per week.

DH 160 (S) 2 hrs. cr.
Dental Radiology
 Theory and technique of exposing, developing, mounting and care of dental radiographs. Interpretation of radiograph findings is discussed, principles of radiation safety are emphasized. One hr. lecture, 4 hrs. lab per week.

DH 190 (Summer) 3 hrs. cr.
Clinical Dental Hygiene I
 Introduction to clinical practice of dental hygiene. Experience in providing patient services through performing oral prophylaxis, exposing and processing radiographs, presenting patient education, applying fluoride, charting the oral cavity, etc. Treatment and prevention of dental office emergencies is covered in the lecture session. One hr. lecture, 1 seminar and 16 hrs. lab per week. Prerequisite: DH 102 with minimum grade of "C" or instructor's permission.

DH 200 (F) 3 hrs. cr.
Dental Health Education
 Fundamentals of teaching and learning theories. Development of teaching units and lesson plans for various public groups and/or organizations, practical experience in public schools and community groups and experience in providing dental health education to mentally and physically handicapped and geriatric patients. Three hrs. lecture per week.

DH 210 (Summer) 3 hrs. cr.
Perio-Pathology
 Lectures and laboratory periods are devoted to the study of oral pathological conditions, including etiology, degenerative process, inflammation and immunity. Etiology, classification, treatment and prevention of periodontal disease is stressed. Six hrs. lecture per week.

DH 220 (S) 3 hrs. cr.
Dental Materials
 Information about various dental materials. Students learn to make alginate impressions, plaster models and manipulate other materials. Required course for dental hygiene curriculum. Prerequisite: DH 101 Fundamentals of Dental Hygiene "I" with a "C" or above or instructor's permission. Two hrs. lecture, 2 hrs. lab per week.

DH 290 (F) 5 hrs. cr.
Clinical Dental Hygiene II
 Continuation of DH 190 with added responsibilities as skills develop. Lecture information on advanced dental hygiene techniques and techniques for local anesthesia and pain control. Practical experience in infiltration anesthesia during the laboratory session. Multicultural experience is gained through rotations in extended campus facilities. One hr. lecture, 16 hrs. clinical lab per week. Prerequisites: DH 190 with minimum grade of "C" or instructor's permission.

DH 310 (S) 2 hrs. cr.
Nutrition
 Nutrition and diet as related to dental health, biochemistry of digestion and the utilization of nutrients. Special emphasis on dietary analysis as part of total health care and the role of the dental hygienist in providing nutritional counseling. Two hrs. lecture per week.

DH 320 (F) 2 hrs. cr.
Pharmacology
 Principles of drug actions and characteristics of major drug groups including sources of drugs, methods of their administration, classification, dosage, therapeutic action and drug interactions. Emphasis on drugs affecting oral health and drugs used in dentistry. Two hrs. lecture per week.

DH 330 (S) 3 hrs. cr.
Ethics and Community Dentistry
 Professional ethics and commitment, professional organizations, state practice acts and practical consideration of methods and problems associated with operating and maintaining a dental practice. Definition and identification of the scope of public and dental public health. Consideration of philosophy; health legislation; federal, state and local health programs; needs and demands for dental care; and mechanisms for financing dental care. Three hrs. lecture per week. Prerequisites: DH 200 with minimum grade of "C."

DH 390 (S) 5 hrs. cr.
Clinical Dental Hygiene III
 Continuation of DH 290. Clinical experience in advanced clinical procedures and dental assisting procedures, including experience in extended campus facilities. Principles of four-handed dentistry in the lecture portion and discussion of the eight recognized dental specialties including their relationship to preventive dentistry. One hr. lecture, 16 hrs. lab week. Prerequisite: DH 290 with minimum grade of "C" or instructor's permission.

Environmental Health Technology (EHT)

EHT 298 1-8 hrs. cr.

Selected Topics in Environmental Health

Special topics in environmental health not normally included in another course. Prerequisite: Bio 112 and 122.

EHT 300 (Demand) 4 hrs. cr.

Environmental Geology

Introduction to man's relationship to the earth's environment. Limitations of natural resources and future projections are considered along with man's demands on the environment. Oil spills, surface mining, waste disposal, ground water and other problems of a geologic nature are reviewed. Natural environmental hazards, such as volcanoes, earthquakes, subsidence, mass movements and floods are examined. Prerequisite: Phys 100. (Double listed in geology.)

EHT 312 (F) 4 hrs. cr.

Environmental Biology

(Writing Intensive)

Environmental factors and their interactions with living organisms. Emphasis on human ecology and wise natural resource utilization. Three lectures, one 2 hr. lab per week. Prerequisite: Bio 112 and 122, or permission. (Double listed in biology)

EHT 370 (Demand) 4 hrs. cr.

Environmental Health

Contemporary environmental health problems and public protection measures, including public health disease prevention, vector control, etc. Three lectures, one 2-hr. lab per week. Prerequisite: Bio 231 or permission. (Double listed in biology.)

EHT 372 (F, Odd) 4 hrs. cr.

Environmental Regulations and Program Administrations

Study of regulations which constitute the basis for management of environmental agencies and organization of environmental health agencies. Prerequisite: EHT 312 and 370 (Bio 312 and 370) or permission of instructor.

EHT 373 (S, Even) 2 hrs. cr.

Solid Waste Management

Introduction to the problems and solutions related to the generation, storage, collection and disposal of solid wastes. Management aspects of planning, organizing, designing and operating refuse collection and disposal systems also included. Prerequisite: EHT 312 and 370 (Bio 312 and 370) or permission of instructor.

EHT 375 (S, Even) 2 hrs. cr.

Vector Control

Identification and control of organisms which serve as reservoirs and vectors of diseases. Prerequisite: EHT 312 and 370 (Bio 312 and 370) or permission of instructor.

EHT 377 (S, Odd) 4 hrs. cr.

Community Sanitation

Introduction to concepts, principles and methods generally useful in performance of duties of city and county health department personnel. Prerequisite: EHT 312 and 370 (Bio 312 and 370) or permission of instructor.

EHT 385 (F, Even) 4 hrs. cr.

Food, Milk and Consumer Protection

Introduction to production, processing, transporting and retailing of food, milk, shellfish and other foods. Prerequisite: Bio 231, EHT 312 (Bio 312) and EHT 370 (Bio 370) or permission of instructor.

EHT 483 (S, Odd) 2 hrs. cr.

Environmental Assessment

The essential elements necessary for development of an environmental assessment document as specified by the National Environmental Protection Act. Prerequisite: Bio 290 and EHT 370 (Bio 370) or permission of instructor.

EHT 380 (S, Odd) 2 hrs. cr.

Epidemiology

Introduction to the concepts, principles and methods generally useful in the surveillance and investigation of communicable disease. Prerequisite: Bio 290, EHT 312 (Bio 312) and EHT 370 (Bio 370) or permission of instructor. (Double listed in biology.)

EHT 450 (F, S) 1-8 hrs. cr.

Internship in Environmental Health

Experience in actual observation and work at health facilities, health regulation agencies and/or industrial plants where environmental health is a viable concern. Periodic meetings between the Missouri Southern coordinator, the cooperating institution and the student will be required. The student should not be employed in any job that will prevent full-time, maximum concentration on the academic internship. Prerequisite: Senior standing in environmental health or biology curricula.

EHT 498 1-3 hrs. cr.

Seminar in Environmental Health

For upper division environmental health and biology majors only. Meets regularly a minimum number of hours. Designed to give specialized instruction in some discipline of environmental health not covered in other courses. Prerequisites: Junior standing, 20 hrs. in environmental health and/or biology and a minimum GPA of 2.5 in environmental health and/or biology or permission of instructor.

EHT 499 1-3 hrs. cr.

Problems in Environmental Health

Individual work under the supervision of a staff member, with the credit and hours to be arranged. Problems may be undertaken in any field of environmental health, with adequate preparation and the consent of the supervising instructor, coordinator, department head and school dean. Prerequisites: Minimum GPA of 3.0 in 20 hrs. of environmental health and/or biology.

Law Enforcement (LE)

LE 100 (F, S) 3 hrs. cr.

Introduction to Law Enforcement

Municipal, county, state and federal police organizations. History and administration of justice. Responsibilities and opportunities in the field of law enforcement.

LE 110 (F) 2 hrs. cr.

Police Organization and Administration

Management operations, communications, budgeting, recruiting, training and public relations as they pertain to local and state law enforcement agencies.

LE 150 (S) 3 hrs. cr.

Interview and Report Writing

Techniques of interviewing and writing the report. Legal considerations for criminal interrogations. Use of basic report forms and records systems.

LE 180 (F, S, Summer) 6 hrs. cr.

Basic Police Academy

The basic training course for new law enforcement officers in Missouri, approved by P.O.S.T. (Police Officers Standards and Training) Office of the State Department of Public Safety. The broad range of topics includes firearms, reports, defensive tactics, investigation and Missouri traffic and criminal laws. Prerequisites: LE 100, LE 110 and LE 150 or permission. (Additional lab fee for course.)

LE 200 (F) 3 hrs. cr.

Criminal Investigation I

Fundamentals of criminal investigation techniques including crime scene procedures, burglary and death investigation. Includes collection, preservation, identification of evidence and overview of crime lab procedures.

LE 210 (F) 3 hrs. cr.

Criminal Procedures

Criminal law procedures from arrest through trial, search and seizure, laws of evidence, review of pertinent supreme court decisions and related topics. The order of criminal trial.

LE 225 (S) 3 hrs. cr.

Patrol Procedures

Covers numerous areas confronting today's law enforcement officer during tours of duty and the proper techniques and procedures used in handling each area.

LE 245 (S) 3 hrs. cr.

Law Enforcement Photography

Designed to instruct the law enforcement student in the fundamentals of photography, as it relates to documentation and investigation of crime scene evidence. No credit if CJAd 210 has been completed.

LE 250 (S) 3 hrs. cr.

Criminal Law

Criminal law purposes and functions, laws concerning arrest, search and seizure. Rights and duties of officers and citizens in relation to local, state and federal laws. The development, application and enforcement of laws.

LE 290 (S) 3 hrs. cr.
Police Supervision and Management
 Principles of personnel management as applied to law enforcement agencies: evaluation, promotion, discipline, training, employee welfare and problem-solving leadership.

LE 298 (Demand) 1-8 hrs. cr.
Special Topics in Law Enforcement
 Course content varies and is designed to meet current needs and interests in the rapidly changing field of law enforcement. Precise topics to be announced and prerequisites stipulated in course syllabus.

Medical Technology (MT)

MT 200 (F, S) 1 hr. cr.
Introduction to Medical Technology
 A practical experience designed to introduce prospective medical technology students to the following areas of a hospital laboratory: hematology, coagulation, urinalysis, blood bank, microbiology, serology, radioimmunoassay and chemistry.

MT 401 (F) 10 hrs. cr.
Clinical Chemistry
 Analytical and theoretical aspects of the clinical biochemistry of body fluid constituents utilizing both manual and instrumental techniques, including automation and special procedures. Five hrs. lecture, 20 hrs. clinic/lab per week.

MT 402 (S) 1 hr. cr.
Clinical Microscopy
 Principles and techniques of the physical, chemical and microscopic examination of urine and other excrete as related to disease processes. One hr. lecture, clinic by arrangement.

MT 403 (F) 6 hrs. cr.
Hematology
 The cellular elements of blood and bone marrow; theory of cell production, release and survival; morphological characteristics of normal and abnormal cells; quantitative and qualitative abnormalities. Principles and techniques involved in the study of hemostasis, blood coagulation and hemorrhagic disorders. Three hrs. lecture, 12 hrs. clinic/lab per week.

MT 404 (S) 3 hrs. cr.
Serology-Immunology
 The science of immunity including antibody development, principles of antigen-antibody interactions and techniques of serological testing for various disease states. Three hrs. lecture, 12 hrs. clinic/lab per week.

MT 405 (S) 7 hrs. cr.
Clinical Microbiology
 Sterile technique, methods of handling and inoculating specimens containing pathogenic micro-organisms, isolation and identification of pathogenic micro-organisms, laboratory tests in chemotherapy, and diagnostic bacteriology, mycology and parasitology. Four hrs. lecture, 12 hrs. clinic/lab per week.

MT 406 (S) 3 hrs. cr.
Blood Bank-Immunohematology
 A study of the blood group systems and the immune response. Methods of crossmatching, antibody screening and phenotyping. Administrative safeguards and legal aspects of blood banking. Proper clinical utilization of blood components. One hr. lecture, 8 hrs. clinic/lab per week.

MT 407 (S) 2 hrs. cr.
Special Topics in Medical Technology
 Lecture and/or clinical practice in the areas of in-service education, management and supervision, research and development, and principles and techniques of the instructional process. Lecture and labs to be arranged.

Military Science (MS)

MS 111 (F) 2 hrs. cr.
Adventure Training
 Basic rifle marksmanship, camping, mountaineering, rappelling, map reading and survival. An overview of Army ROTC and job opportunities throughout the Army. One hr. lecture, 2 hrs. lab per week. Participants incur no military obligation by taking this course. Can be taken in lieu of HPER 100 in some programs.

MS 112 (S) 2 hrs. cr.
Survival Skills
 Basic survival skills in various geographic regions and climates, as well as basic first aid in survival situations. An overview of the branches of the Army, as well as the Army Reserve and Army National Guard. One hr. lecture, 2 hrs. lab per week. Participants incur no military obligation by taking this course.

MS 201 (F) 2 hrs. cr.
Contemporary Military Subjects
 An overview of areas of military interest in today's world and how these current events affect each of us. Basic military management techniques and leadership styles. A review of ROTC programs and their application to career goals both military and civilian. Two hrs. lecture, one hr. lab per week. Participants incur no military obligation by taking this course.

MS 202 (S) 2 hrs. cr.
Individual Military Skills
 Comprehensive instruction on a variety of "soldier skills" which the student should know prior to enrolling in Advanced ROTC courses. Customs and traditions, land navigation, field training exercises, physical training programs and additional leadership experiences. One hr. lecture, 2 hrs. lab per week. Participants incur no military obligation by taking this course.

MS 298 (Summer) 2-8 hrs. cr.
Seminar in Military Science (ROTC Basic Camp)
 An in-depth study of the military science courses normally taught on the college campus during the freshman and sophomore years, including tactics, marksmanship, communication, physical conditioning and practical leadership experience. The six-week course is taught at Fort Knox, Ky. with transportation and room and board plus a salary provided by the Army.

MS 301 (F) 3 hrs. cr.
Fundamentals and Dynamics of Military Team I
 Leadership, its principles, responsibilities and techniques. Functions of the leader, leadership (including management of military assets), introduction to leadership theory and practice and military laws. Includes a physical training program and weekend field problem. Three hrs. lecture per week. Prerequisite: Permission.

MS 302 (S) 3 hrs. cr.
Fundamentals and Dynamics of Military Team II
 Branches of the Army, small unit tactics, communications, leadership theory and practice. Included is a physical training program and two weekend field problems. Three hrs. lecture per week. Prerequisite: Permission.

MS 400 (S) 3 hrs. cr.
 (SEE HIST 400)
United States Military Experience 1775 to Present
 A broad view of military history concerning the role of force on land, sea or air against foreign governments and domestic dissidents. Emphasizes military policy, organization and technology, relating to political, social and economic developments. Covers the major American wars and other activities of the armed forces but only in their larger aspects, selectively and for the purpose of illustrating the broad themes in the military experience. Three hrs. lecture per week.

MS 411 (F) 3 hrs. cr.
Leadership and Management I
 Command and staff concept and evolution, organization for operations, the composition and mission of various military teams, broad aspects of military logistics, leadership theory and practice. Also included is a program of directed readings in military history, a physical training program and a weekend field problem. Three hrs. lecture per week. Prerequisite: Permission.

MS 412 (S) 3 hrs. cr.
Leadership and Management II
 Military law, obligations and responsibilities of an officer, military personnel, logistics and administrative management, world change and military implications, leadership theory and practice. Also included are a physical training program and two weekend field problems. Three hrs. lecture per week. Prerequisite: Permission.

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MS 499 (F, S)

Independent Study in Military Justice

Individually directed readings, research, and practical experience for advanced students in Military Science. Topics to be covered may include: application of military history; battalion staff operations and planning; and research into current topics and credit must be approved by the Department Head and school dean. Prerequisite: Instructor permission.

Nursing—Associate Degree (Nurs)

Nurs 100 (F)

6 hrs. cr.

Introduction to Nursing Process

An introduction to nursing, roles and competencies of the associate degree nurse and application of the nursing process with emphasis on health and uniqueness of individuals. Students are expected to demonstrate proficiency in the basic nursing skills. Licensed practical nurses admitted to the program complete the theory portion of the course. Following the demonstration of clinical proficiency in basic skills, LPNs will be exempt from part of the clinical lab experience. Clinical assignments which provide the opportunity to develop skill in the use of the nursing process will be selected. Four hrs. lecture, 6 hrs. clinical lab including pre- and post-conferences.

Nurs 110 (S)

9 hrs. cr.

Nursing Process with the Developing Family

Application of the nursing process to the healthy childbearing family followed by complications of childbearing and common illnesses of childhood. Emphasis is on family and individual development from conception through adolescence. The student is expected to organize care of selected patients with emphasis on teaching parenting skills. Historical highlights and trends in maternal/child care are presented. Five hrs. lecture, 12 hrs. clinical lab including pre- and post-conferences. Prerequisites: Nurs 100 and Bio 306 with minimum grade of "C."

Nurs 130 (Summer)

4 hrs. cr.

Nursing Process in Psychiatric-Mental Health Nursing

The promotion of mental health as well as application of the nursing process in the care of the client who demonstrates alterations in mental health in psychiatric mental health settings. Use of therapeutic communication and the nurse-patient relationship are emphasized. Four hrs. lecture, 12 hrs. clinical lab including pre- and post-conference. Prerequisites: Nurs 110 and Chem 100 with minimum grade of "C."

Nurs 220 (F)

9 hrs. cr.

Nursing Process with Adults I

Applies the nursing process to the adult client and family in achieving wellness. Development of the middle years is emphasized. In the clinical setting, opportunity is given to organize and provide care to more than one patient utilizing roles of the associate degree nurse. Communication including writing skills and health teaching are emphasized. Five hrs. lecture, 12 hrs. clinical lab including pre- and post-conferences. Prerequisite: Nurs 130 with minimum grade of "C."

Nurs 240 (S)

9 hrs. cr.

Nursing Process with Adults II

A continuation of Nursing 220 with application of the nursing process to include critical care areas. The student assumes a greater role as a member of the health team by increased utilization of organizational and managerial skills. Developmental aspects of aging are emphasized. Professional issues, international trends as they influence health care are included. Four hrs. lecture, 15 hrs. clinical lab including pre- and post-conferences. Prerequisites: Nurs 220 and Bio 231 with minimum grade of "C."

Nurs 298 (Demand)

1-3 hrs. cr.

Selected Topics in Nursing

Special topic or topics not normally included in another course. Prerequisites to be determined by the department of nursing and stipulated in a syllabus of the course.

Nursing—Baccalaureate Degree (Nurs)

Nurs 300 (F)

3 hrs. cr.

Concepts of Professional Nursing (Writing Intensive)

Provides opportunities for socialization of the learner in transition from a technical level to the professional level of nursing practice. Core content includes theories of nursing, the nursing process, change theory, communications, teaching/learning process and professional accountability. Professional roles of the nurse presented are teacher, planner of care, communicator and contributor to the discipline of nursing. Three hrs. lecture. Prerequisite: Admission to BSN program.

Nurs 315 (F)

3 hrs. cr.

Gerontic Nursing

Provides comprehensive knowledge of the processes and problems of aging. Needs and functional capacities of the aged are addressed. Emphasis is placed on the formulation of interventions appropriate to the individual needs of the aged client and family. Issues relevant to the field of gerontic nursing are presented. Three hrs. lecture. Prerequisite: Admission to BSN program or RN status with permission of instructor.

Nurs 320 (F)

3 hrs. cr.

Nursing Ethics

Investigates ethical issues which confront the professional throughout the client's life span. Ethics as a concept, traditional ethical approaches, constraints in nursing practice and selected ethical issues are presented. The role of the nurse will be emphasized using the case study approach. Three hrs. lecture. Prerequisite: Admission to BSN program or RN status with permission of instructor.

Nurs 330 (F)

5 hrs. cr.

Advanced Health Assessment

Physical assessment is utilized as a tool in the data collection phase of the nursing process. Clinical experience is designed to refine the assessment skills with the assistance of an instructor. Nursing process is applied to the care of patients with a complexity of health problems in a variety of settings. Three hrs. lecture, 2 hrs. campus lab and 4 hrs. clinical lab. Prerequisites: Bio 308, Nurs 300 (or concurrent.)

Nurs 400 (S)

5 hrs. cr.

Community Health Nursing

Concepts and methods for assessment of community strengths and health needs will be analyzed. Recommendation for the prevention, promotion and restoration of the health of individuals within the community, state and nation are presented. Interactive process is accentuated between health care providers and community residents to improve the overall health status of the person and aggregates. Three hrs. lecture, 6 hrs. clinical lab including conferences. Prerequisites: Nurs 300, Nurs 330.

Nurs 405 (S)

3 hrs. cr.

Nursing and Health Care

Examines various facets of health care delivery in the United States beginning with general systems theory. Historical threads that formed the fabric of today's health care delivery systems are woven throughout the course. Public and private providers who are responsible for health care and the influence of power groups on health care delivery are discussed. The effects of legislation on health care provision and on nursing practice are emphasized. Health related industries, the cost of health care and who pays, the role of consumers, and the barriers to care experienced by certain groups are also explored. An investigation of selected systems in other countries, projections for the future, and current trends in health care are included. Three hrs. lecture. Prerequisite: Admission to BSN program or RN status with permission of instructor.

Nurs 415 (S)

3 hrs. cr.

Nursing Research

(Writing Intensive)

Provides guided investigation of research design, methodology, sampling, conclusions and clinical application of findings. Critical evaluation of research studies is emphasized. Legal and ethical issues relative to the research process are studied. Nursing research builds upon knowledge and skills acquired in the statistics course. Three hrs. lecture. Prerequisites: Psy 320, Nurs 300, Nurs 330, Nurs 400 (or concurrent.)

Nurs 430 (S) 5 hrs. cr.

Nursing Management and Leadership

Investigates the role of the nurse manager responsible for clinical practitioners in a bureaucratic environment. Concepts of competitive health care environment, value of services, access to care, quality and costs of services and professional level of nursing practice are incorporated. Application of concepts through clinical lab experiences promotes the knowledge and skills in understanding and manipulating the environments in which nurses practice. Three hrs lecture, 6 hrs. clinical lab. Prerequisites: Nurs 300, Nurs 330, Nurs 400 (or concurrent.)

Nurs 498 (Demand) 1-3 hrs. cr.

Seminar in Nursing

Special topic or topics not normally included in another course. Prerequisites: Upper division standing, additional requirements will be stipulated in the syllabus of the course.

Nurs 499 (Demand) 1-3 hrs. cr.

Independent Study

Independent study course structured by adviser with approval of department head. Prerequisite: Advanced standing in major field. Registration in the course must be approved by adviser, department head and school dean. Minimum of 3.0 GPA required.

Paramedic Program (EMT-P)

EMT-P 295 (Demand) 18 hrs. cr.
EMT-P (Paramedic)

Classroom instruction supplemented by clinical observation and experience. The program meets over a two semester period. The classroom phase consists of three 3-hr. sessions per week. The clinical training is arranged through area hospitals and ALS ambulance services. Applicants must be at least 18 years of age, hold a high school diploma or equivalent and possess a current state ambulance license. A minimum of one year experience in the emergency medical field is preferred. Requirements for admission and for curriculum may change as the State Bureau of Emergency Medical Services may modify these for licensing. Special book and equipment fees are assessed for this course. (For additional information, contact the director of criminal justice programs or School of Technology.)

Radiologic Technology (Rad)

Rad 101 3 hrs. cr.

Introduction to Radiology

Basic procedures and equipment in the radiology department. Includes organization, function and supervision of a radiology department with a history of X-ray, ethical principles and legal aspect of technology and elementary radiation protection. Two hrs. lecture, 2 hrs. lab per week. Prerequisite or corequisite Bio 306.

Rad 111 3 hrs. cr.

Medical Terminology

The language of medicine, especially as related to radiology, through a comprehensive study of the more common medical roots, prefixes and suffixes. Relates medical roots to everyday English words. A survey of medical and surgical diseases is included. Three hrs. lecture per week.

Rad 121 3 hrs. cr.

Patient Care and Special Procedures in Radiology

Routine and special care of the patient. Includes sterile techniques, preparation of contrast media. Special attention to visualization of digestive, urinary and reproductive organs. Three hrs. lecture per week.

Rad 132 3 hrs. cr.

Principles of Radiographic Exposure

Fundamental principles of technique and technique conversion with particular emphasis on the factors that directly and indirectly affect radiographic exposure. Emphasis on radiation protection and darkroom chemistry and techniques. Three hrs. lecture per week.

Rad 142 3 hrs. cr.

Radiographic Positioning I

Basic radiographic positioning including both standard and specialized position of the extremities and spine. Film critique and radiation protection are included. Two hrs. lecture, 3 hrs. lab and 12 hrs. clinic per week.

Rad 160 2 hrs. cr.

Film Critique

Develops student's ability to evaluate X-ray films as to technical quality and diagnostic interpretation. Includes an introduction to quality assurance. One hr. lecture, 2 hrs. lab per week.

Rad 170 3 hrs. cr.

Radiologic Physics

The physics of radiology. The physical principles of X-ray production. Including theory in electricity, rectification, circuitry and basic equipment maintenance. Three hrs. lecture per week.

Rad 180 4 hrs. cr.

Practicum in Radiology I

Intensified clinical training in the areas of urology, surgery, special procedure, fluoroscopy and general radiography. Course meets for 12 weeks summer session. Thirty-five hrs. clinic per week.

Rad 241 3 hrs. cr.

Radiographic Positioning II

In-depth study of routine and special views of the skull and facial bones. Film critique, radiation protection and skull anatomy review included. Two hrs. lecture, 3 hrs. lab, 20 hrs. clinic per week.

Rad 252 3 hrs. cr.

Radiographic Positioning III

Procedures and techniques for examination of various organs, including vascular studies and all special procedures. Course includes film critique, radiation protection and review of vascular anatomy. Three hrs. lecture, 20 hrs. clinic per week.

Rad 282 2 hrs. cr.

Practicum in Radiology II

Advanced clinical training. Includes an introduction to the responsibility of patient flow control. Twenty hrs. clinic per week.

Rad 290 4 hrs. cr.

Practicum in Radiology III

Professional clinical training in which the student controls patient flow. Special attention is given to final training in special procedures and surgery. Includes radiation therapy. Course meets 12 weeks during the summer session. Thirty-five hrs. clinic per week.

Rad 299 3 hrs. cr.

Advanced Radiology

Comprehensive review of the field of radiology including innovations, trends and anticipated advancements in the field. Three hrs. lecture per week.



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College History

The citizens of Joplin, who in the late 1930s asked the public school district to offer college classes, could not have envisioned the sprawling campus and multidiscipline curriculum that today is Missouri Southern State College. From that initial request came Joplin Junior College, founded in 1937 as part of the Joplin school system. Nine faculty members and 114 students began classes under the auspices of the Extension Division of the University of Missouri in the new high school building.

In the spring of 1938, voters approved almost five-to-one a bond proposal that would assure the continuation of the junior college. During the next 25 years Joplin Junior College established a national reputation for outstanding academic strength, a strong foundation for what was to come. By the mid-1960s, area citizens again recognized the need for expanded educational opportunities.

In 1964, the citizens voted eight to one to create the Junior College District of Jasper County with a Board of Trustees to govern the newly named Jasper County Junior College. The following year, the Missouri General Assembly established a two-year senior college to be funded by the state when facilities of the junior college became available. The district would continue to fund the freshman and sophomore years.



The area again responded with enthusiastic and generous support to fund the building of a new campus on the site of the Mission Hills Farm to house the growing college. Administration and faculty, working with other college educators around the state, began developing the new curriculum. In August 1967, students gathered for the first time on the new campus of Missouri Southern State College.

The dual funding arrangement with the state continued until 1977 when on July 1 the State of Missouri officially took on the responsibility of funding the entire college. Today Missouri Southern State College remains a proud member of the state's higher education family while continuing to serve the region that is an integral part of its past.

Board of Regents

Frank S. Dunaway 1993
Douglas K. Crandall 1994
Cynthia Schwab 1995
Keith Adams 1996
Elvin Ummel 1997
Joe Newman 1998

Board of Trustees

Fred G. Hughes
Donald R. Patterson
Elvin Ummel
Jerry E. Wells

Memberships

American Association of State Colleges and Universities
American Association of Colleges for Teacher Education
North Central Association
Sub-Committee on Institutions for Teacher Education
Council for the Advancement and Support of Education
American Assembly of Collegiate Schools of Business
Association of Collegiate Schools and Business Programs

Accreditation

North Central Association of Colleges and Secondary Schools
National Council for the Accreditation of Teacher Education
Missouri State Board of Nursing
Missouri State Department of Education
American Dental Association
American Medical Association
National League for Nursing
Committee on Allied Health Education and Accreditation
National Association for Accreditation of Clinical Laboratory Sciences

Information concerning accreditation, including copies of pertinent documents, may be obtained from the Office of the Vice President for Academic Affairs.

Administrative Staff

President	Julio S. Leon
Senior Vice President	John W. Tiede
Vice President for Academic Affairs	Robert C. Brown
Vice President for Student Services	Glenn D. Dolence
Controller &	
Asst. Vice President for Business Affairs	Sidney Shouse
Asst. Vice President for Information Services	J. Steve Earney
Asst. to the Vice President for Academic Affairs	Judy M. Bastian
Dean, School of Arts and Sciences	Ray A. Malzahn
Dean, School of Business Administration	James M. Gray
Dean, School of Education and Psychology	Edward P. Merryman
Dean, School of Technology	Donald R. Seneker
Head, Department of Biology	John P. Messick
Head, Department of Communications	Richard W. Massa
Head, Department of Computer Science	Jack L. Oakes
Head, Department of Education	James V. Sandrin
Head, Department of English	Stephen J. Spector
Head, Department of Fine Arts	Pete Havely
Head, Department of Mathematics	J. Larry Martin
Head, Department of Physical Education	J. Dirk Nelson
Head, Department of Physical Sciences	Vernon D. Baiamonte
Head, Department of Social Sciences	David D. Tate
Director of Criminal Justice	Jack G. Spurlin
Director of Dental Hygiene	Sandra A. Scorse
Director of Military Science	Major Irvin P. Langan
Director of Nursing	Barbara J. Box
Head Librarian	Charles H. Kemp
Director of Alumni Affairs	Kreta C. Gladden
Director of Assessment & Institutional Research	Delores A. Honey
Director of Continuing Education, Conferences and Workshops	R. Jerry Williams
Director of Public Information	Gwen E. Hunt
Registrar	Eugene C. Mouser
Director of Missouri Southern Foundation	W. Sue Billingsly
Director of Student Life & Assistant to	
Vice President for Student Services	Douglas M. Carnahan
College Nurse	Julia L. Foster
Director of Men's Athletics	James L. Frazier
Director of Career Planning and Placement	Nancy D. Looime
Director of Women's Athletics	Sallie L. Beard
Director of Admissions	Richard D. Humphrey
Learning Center Coordinator	Myrna L. Dolence
Director of Student Financial Aid	James E. Gilbert
Bookstore Manager	Charles D. Moss
Director of Office Services	Ron L. Foster
Director of Safety & Security	Bill W. Boyer
Director of Personnel	Terri Agee
Director of Purchasing	David E. Throop
Director of Physical Plant	Robert W. Beeler

Faculty

(Date indicates first year of full-time MSSC service)

David L. Ackiss

Professor, English 1981
Honors Program Director
Bachelor's (A.B.), Davidson College
Master's (M.A.), College of William and Mary
Doctorate (Ph.D.), Duke University
Summer Studies, Oxford University, England

Franklyn W. Adams

Associate Professor, Biology 1988
Bachelor's (B.S.), University of Southern Mississippi
Master's (M.A.), Montevallo University
Doctorate (Ph.D.), University of Southern Mississippi

Laura L. Adkins

Instructor, Mathematics 1991
Bachelor's (B.S.E.), Missouri Southern State College
Master's (M.S.), Pittsburg State University

Lawrence R. Albright, II

Professor, Chemistry 1969
Bachelor's (B.S.), Northwest Missouri State University
Master's (M.S.), University of Nebraska
Doctorate (Ph.D.), University of Nebraska

Ann L. Allman

Instructor, Counseling 1988
Counselor
Bachelor's (B.A.), University of Missouri
Master's (M.Ed.), University of Missouri
Doctoral Studies, University of Missouri

Grace E. Ayton

Assistant Professor, Nursing 1986
Bachelor's (B.S.N.), Columbia Union College
Master's (M.N.), Wichita State University

Brian C. Babbitt

Professor, Psychology 1977
Bachelor's (B.A.), Western Washington State College
Master's (M.A.), University of New Mexico
Doctorate (Ph.D.), University of New Mexico

Vernon D. Baiamonte

Professor, Chemistry 1967
Head, Department of Physical Sciences
Bachelor's (A.B.), Colorado State College
Master's (M.A.), Colorado State College
Doctorate (Ph.D.), Indiana University
Post Doctoral Fellow, University of California, Los Alamos Scientific Lab

Scott L. Ballard

Instructor, Physical Education 1990
Women's Basketball Coach
Bachelor's (B.S.), Southwest Missouri State University
Master's (M.S.), Drury College

Michael E. Banks

Associate Professor, Education 1975
Bachelor's (B.S.), Oklahoma State University
Master's (M.S.), New Mexico Highlands University
Doctorate (Ph.D.), University of Kansas

Francis L. Bartholet

Assistant Professor, CADD 1987
Bachelor's (B.S.), St. Cloud State University
Master's (M.Ed.), University of Minnesota
Doctoral Studies, University of Iowa

Judy M. Bastian

Instructor, Communications 1991
Assist. to the Vice President for Academic Affairs
Bachelor's (B.A.), Muhlenberg College
Master's (M.A.T.), School for International Training

Wiley A. Beals

Instructor, Radiology 1982
Associate's (A.S.), Missouri Southern State College
Graduate, Burge School of Radiologic Technology
Registered Radiologic Technologist
American Registry of Radiologic Technologists

Sallie L. Beard

Assistant Professor, Physical Education 1972
Women's Athletics Director
Bachelor's (B.S.), Missouri Southern State College
Master's (M.S.), Pittsburg State University

Randal L. Becker

Associate Professor, Education 1991
Bachelor's (B.S.), Illinois State University
Master's (M.S.), Illinois State University
Doctorate (Ed.D.), Loyola University

Robert S. Black

Instructor, Library 1988
Reference Librarian
Bachelor's (B.A.), Millikin University
Master's (M.L.S.), Indiana University

Holland C. Blades, Jr.

Professor, Business 1987
Bachelor's (B.A.), Millsaps College
Master's (M.B.A.), University of Southern Mississippi
Doctorate (Ph.D.), University of Arkansas

Beverly Culwell Block

Associate Professor, Business 1984
Bachelor's (B.S.), Southern Nazarene University
Master's (M.S.), University of Arkansas
Doctorate (Ed.D.), University of Arkansas

Harold W. Bodon

Professor, Communications 1971
Bachelor's (B.A.), University of Utah
Master's (M.S.), California State University-Hayward
Doctorate (Ph.D.), Brigham Young University

Barbara J. Box

Associate Professor, Nursing 1986
Director of Nursing
Bachelor's (B.S.N.), Carlow College
Master's (M.S.), University of Oklahoma
Doctorate (Ed.D.), Oklahoma State University

Karen A. Bradshaw

Instructor, Business 1986
Bachelor's (B.S.B.A.), Pittsburg State University
Master's (M.B.A.), Pittsburg State University

Jim J. Bray

Professor, Art 1992
Head, Department of Art
Bachelor's (B.F.A.), Phillips University
Master's (M.F.A.), Tulsa University

Barry E. Brown

Associate Professor, Philosophy 1987
Bachelor's (B.A.), Kalamazoo College
Master's (M.A.), Columbia University
Master's (M.A.), University of Rochester
Doctorate (Ph.D.), University of Rochester

James F. Brown

Assistant Professor, English 1984
Bachelor's (B.S.), University of Iowa
Master's (M.A.), University of Iowa
Master's (M.A.), University of Iowa
Doctorate (Ph.D.), University of Iowa

Robert C. Brown

Professor, Business 1987
Vice President for Academic Affairs
Bachelor's (B.A.), Northwestern State University of Louisiana
Master's (M.A.), Louisiana State University
Doctorate (Ph.D.), Louisiana State University

Ward H. Bryant

Assistant Professor, Communications 1992
Bachelor's (B.S.J.), University of Kansas
Master's (M.S.), University of Kansas

Valerie Carlisle

Assistant Professor, Student Center 1985
Coordinator of Student Activities
Bachelor's (B.A.), West Virginia University
Master's (M.Ed.), University of South Carolina

Sheryl J. Carlson

Instructor, CAMT 1992
Bachelor's (B.A.), Southwest Texas State University
Master's (M.A.), Southwest Texas State University

Douglas M. Carnahan

Associate Professor, Student Services 1978
Assistant to Vice President for Student Services and Director of Student Life
Bachelor's (A.B.), Bowling Green State University
Master's (M.Ed.), University of Georgia
Specialist (Ed.S.), Pittsburg State University
Doctoral Studies, Oklahoma State University

Albert J. Carnine

Assistant Professor, Music 1977
Bachelor's (B.M.E.), Illinois Wesleyan University
Master's (M.M.), Southern Methodist University
Doctorate (D.M.A.), University of Texas

William R. Carter, II

Assistant Professor, Communications 1992
Bachelor's (B.A.), Massachusetts Institute of Technology
Master's (M.A.), Harvard University
Doctoral Studies, Harvard University

Patrick Cassens

Professor, Mathematics 1988
Bachelor's (B.S.), Saint Louis University
Master's (M.S.), Saint Louis University
Doctorate (Ph.D.), Saint Louis University
Post Doctoral Studies, Harvard University

Val A. Christensen

Assistant Professor, Art 1979
Director of Spiva Art Center
Bachelor's (B.F.A.), University of Nebraska, Lincoln
Master's (M.F.A.), Wichita State University

Charles (Bud) L. Clark

Instructor, Music 1989
Choral Director
Bachelor's (B.M.E.), Central Missouri State University
Master's (M.A.), Central Missouri State University

Robert L. Clark

Professor, Communications 1984
Bachelor's (B.A.), Brigham Young University
Master's (M.A.), Brigham Young University
Doctorate (Ph.D.), University of Oregon

Samuel L. Claussen

Associate Professor, Theatre 1977
Bachelor's (B.S.), Missouri Southern State College
Bachelor's (B.A.), Missouri Southern State College
Master's (M.F.A.), University of Virginia

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Assistant Professor, Music 1992
Artist in Residence
Bachelor's (B.M.), Peabody Conservatory of Music
Master's (M.M.), Peabody Conservatory of Music
Doctorate (D.M.A.), Rice University

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Professor, Sociology 1969
Bachelor's (B.A.), Pittsburg State University
Master's (M.S.), Pittsburg State University
Specialist (Ed.S.), Pittsburg State University
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Instructor, Physical Education 1988
Head Athletic Trainer
Bachelor's (B.S.E.), Missouri Southern State College
Master's (M.A.), University of Tulsa

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Assistant Football Coach
Bachelor's (B.A.), Fort Lewis College
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Head Basketball Coach
Bachelor's (B.S.E.), Missouri Southern State College
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Bachelor's (A.B.), Texas Tech University
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Bachelor's (B.S.), Rose-Hulman Institute of Technology
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Bachelor's (B.S.), University of Missouri—Columbia
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Graduate Studies, University of Missouri—Columbia

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Assistant Professor, Business 1978
Bachelor's (B.S.), Missouri Southern State College
Master's (M.S.), Pittsburg State University

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Assistant Professor, Mathematics 1992
Bachelor's (B.S.), University of Washington
Master's (M.S.), University of Washington
Doctoral Studies, University of Washington

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Admissions/Financial Aid Counselor
Bachelor's (B.S.E.), Missouri Southern State College

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Professor, English 1974
Bachelor's (B.A.), Princeton University
Master's (M.A.), University of Michigan
Doctorate (Ph.D.), University of Michigan

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Professor, Student Services 1969
Vice President for Student Services
Bachelor's (B.S.), Missouri Valley College
Master's (M.S.), Pittsburg State University
Doctorate (Ed.D.), University of Arkansas

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Assistant Professor, Learning Center 1973
Coordinator of Learning Center
Bachelor's (B.S.), Pittsburg State University
Master's (M.S.), Pittsburg State University

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Associate Professor, Counseling 1987
Director of Counseling
Bachelor's (B.S.), Emporia State University
Master's (M.S.), Kansas State University
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Assistant Professor, Library 1969
Periodicals Librarian
Bachelor's (B.S.), University of Missouri
Master's (M.A.), University of Missouri
Master's (M.S.), Pittsburg State University

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Bachelor's (B.A.), University of Iowa
Master's (M.A.), University of Iowa
Doctorate (Ed.D.), Drake University

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Bachelor's (B.S.), Reed College
Master's (M.S.), University of Michigan
Master's (M.F.A.), University of Michigan
Doctorate (Ph.D.), University of Michigan

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Assistant Professor, Computer Center 1981
Assistant Vice President for Information Services
Bachelor's (B.B.A.), University of Arkansas
Master's (M.B.A.), University of Central Arkansas
Certified Data Processor (CDP)

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Professor, Business 1986
Bachelor's (B.S.), San Diego State University
Master's (M.A.), University of Southern California
Doctorate (Ph.D.), University of Southern California

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Associate Professor, Nursing 1971
Bachelor's (B.S.N.), University of Tennessee
Master's (M.A.), Memphis State University
Master's (M.S.N.), Texas Woman's University

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Bachelor's (B.S.E.), Southwest Missouri State University
Master's (M.S.), University of Arkansas
Graduate Studies, University of Arkansas

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Assistant Professor, Nursing 1981
Bachelor's (B.S.N.), University of Connecticut
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Professor, Music 1968
Bachelor's (B.M.E.), Pittsburg State University
Master's (M.M.), Pittsburg State University
Doctoral Studies, University of Northern Colorado

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Instructor, Physical Education 1989
Assistant Football Coach
Bachelor's (B.S.), Northeastern Oklahoma State University
Master's (M.S.), University of Oklahoma

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Professor, Theatre 1987
Head, Department of Theatre
Bachelor's (B.A.), West Liberty State College
Master's (M.A.), West Virginia University
Master's (M.A.), Central Michigan University
Doctorate (Ph.D.), Kent State University
Summer Studies, Oxford University, England

Carl A. Finke

Professor, Business 1970
Bachelor's (B.S.B.A.), University of Arkansas
Law Degree (J.D.), University of Oklahoma
Certified Public Accountant (CPA)

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Associate Professor, Art 1968
Bachelor's (B.A.), Southwest Missouri State University
Master's (M.F.A.), University of Arkansas

James L. Frazier

Assistant Professor, Physical Education 1971
Director of Men's Athletics
Bachelor's (A.B.), University of Wichita
Master's (M.A.), Wichita State University

C. Elaine Freeman

Assistant Professor, Special Programs 1980
Bachelor's (A.B.), Pittsburg State University
Master's (M.S.), Pittsburg State University
Specialist (Ed.S.), Pittsburg State University
Doctorate (Ph.D.), University of Tulsa

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Associate Professor, Biology 1967
Bachelor's (B.S.), Pittsburg State University
Master's (M.S.), Pittsburg State University
Doctorate (Ph.D.), Kansas State University

James E. Gilbert

Associate Professor, Financial Aid 1974
Director of Student Financial Aid
Bachelor's (A.B.), University of Missouri
Master's (M.A.), Southwest Missouri State University
Specialist (Ed.S.), Pittsburg State University

Kreta C. Gladden

Assistant Professor, Alumni 1974
Director of Alumni Affairs
Bachelor's (B.S.), Missouri Southern State College
Master's (M.B.A.), Pittsburg State University
Doctorate (Ed.D.), University of Arkansas

Eillen A. Godsey

Assistant Professor, Learning Center 1984
Learning Center Counselor
Bachelor's (B.A.), East Texas State University
Master's (M.S.), East Texas State University
Specialist (Ed.S.), Pittsburg State University
Doctorate (Ed.D.), Oklahoma State University

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Associate Professor, Business 1968
Bachelor's (B.S.), Pittsburg State University
Master's (M.S.), Pittsburg State University

James M. Gray

Associate Professor, Business 1969
Dean, School of Business Administration
Bachelor's (B.S.B.A.), Dana College
Master's (M.B.A.), University of Arkansas
Certified Systems Professional (CSP)

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Assistant Professor, English 1970
Head Varsity Soccer Coach
Bachelor's (B.A.), Northeast Louisiana State College
Master's (M.A.), Northeast Louisiana State College
Doctoral Studies, North Texas State University

Betsy Q. Griffin

Professor, Psychology 1978
Head, Department of Psychology
Bachelor's (B.A.), East Carolina University
Master's (M.A.), University of South Carolina
Doctorate (Ph.D.), University of South Carolina

Conrad E. Gubera

Professor, Sociology 1967
Bachelor's (B.S.), Pittsburg State University
Master's (M.S.), Pittsburg State University
Doctorate (Ph.D.), Oklahoma State University
Post Doctoral Studies, Columbia University
Summer Studies, Oxford University, England

Patricia A. Halverson

Instructor, Communications 1992
Chart Advisor
Bachelor's (B.A.), Missouri Southern State College
Graduate Studies, Southwest Missouri State University

Henry L. Harder

Professor, English 1970
Bachelor's (A.B.), Subiaco College
Master's (M.A.), University of Arkansas
Doctorate (Ph.D.), University of Maryland

Dennis R. Harmon

Assistant Professor, Mathematics 1989
Bachelor's (B.S.), University of Oklahoma
Master's (M.A.), University of Oklahoma
Doctorate (Ph.D.), University of Oklahoma

Wayne A. Harrell

Professor, Music 1971
Bachelor's (B.M.E.), Wichita State University
Master's (M.M.E.), Wichita State University
Doctorate (Ed.D.), University of Northern Colorado

Robert A. Harris

Assistant Professor, Music 1971
Bachelor's (B.M.), Pittsburg State University
Master's (M.S.), Pittsburg State University
Pupil of Rosina Lhevinne

Pete Havely

Associate Professor, Music 1979
Head, Department of Music & Band Director
Bachelor's (B.M.E.), Central Oklahoma State University
Master's (M.M.E.), Central Oklahoma State University
Doctoral Studies, Michigan State University

Barbara M. Hernandez

Instructor, Physical Education 1990
Bachelor's (B.A.Ed.), Northwestern State University
Master's (M.Ed.), Northwestern State University

Dennis L. Herr

Assistant Professor, Computer Science 1985
Bachelor's (B.S.), Missouri Southern State College
Master's (M.B.A.), Pittsburg State University
Certified Data Processor (CDP)

Garry J. Hess

Assistant Professor, Art 1971
Bachelor's (B.S.), Fort Hays State University
Master's (M.A.), Pittsburg State University
Graduate Studies, Pittsburg State University, East Texas State University

Jean M. Hobbs

Instructor, Physical Education 1991
Wellness Director and Assistant Athletic Trainer
Bachelor's (B.S.), Missouri Southern State College
Master's (M.S.), Baylor University

Tom L. Holman

Associate Professor, History 1962
Bachelor's (A.B.), Southwestern College
Master's (M.A.), Pittsburg State University
Doctorate (Ed.D.), Oklahoma State University

Delores A. Honey

Associate Professor, 1980
Director of Assessment and Institutional Research
Bachelor's (B.S.), Southwest Missouri State University
Master's (M.Ed.), University of Missouri — Columbia
Specialist (Ed.S.), Pittsburg State University
Doctorate (Ph.D.), University of Missouri — Columbia
Summer Studies, Oxford University, England

Richard D. Humphrey

Associate Professor, Admissions 1968
Director of Admissions
Bachelor's (B.S.), Pittsburg State University
Master's (M.S.), Pittsburg State University

Duane L. Hunt

Associate Professor, Theatre 1964
Bachelor's (B.S.), Southwest Missouri State University
Master's (M.A.), University of Arkansas
Graduate Studies, University of Arkansas

Gwen E. Hunt

Instructor, Public Information 1976
Director of Public Information
Bachelor's (B.S.), Southwest Missouri State University
Master's (M.A.), University of Arkansas
Graduate Studies, University of Colorado

Susan S. Huston

Instructor, Library 1989
Technical Services Librarian
Bachelor's (B.A.), Oberlin College
Master's (M.A.), Western Michigan University
Master's (M.S.L.), Western Michigan University
Specialist (S.A.), Western Michigan University

James R. Jackson

Professor, Biology 1976
Bachelor's (B.S.), Colorado State University
Master's (M.A.), University of Northern Colorado
Doctorate (Ph.D.), Rutgers State University
Visiting Scholar, Wolfson College, Oxford University, England

Marilyn J. Jacobs

Assistant Professor, Nursing 1974
Bachelor's (B.S.N.), University of Nebraska
Master's (M.S.N.), University of Oklahoma

Anne M. Jaros

Assistant Professor, Theatre 1989
Bachelor's (B.A.), University of Illinois
Master's (M.F.A.), Northwestern University

Jasbir S. Jaswal

Professor, Business 1977
Bachelor's (B.A.), University of Rajputana, India
Master's (M.A.), University of Rajputana, India
Master's (M.A.), University of Texas, El Paso
Doctorate (Ph.D.), University of Missouri

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Associate Professor, Business 1974
Bachelor's (B.S.B.A.), Missouri Southern State College
Master's (M.B.A.), Central Missouri State University

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Assistant Professor, Mathematics 1968
Bachelor's (B.S.E.), University of Oklahoma
Master's (M.A.), University of Oklahoma
Graduate Studies, University of Texas, University of Wisconsin, University of Minnesota

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Bachelor's (B.A.), Missouri Southern State College
Master's (M.S.), Pittsburg State University
Graduate Studies, Central Missouri State University

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Director of Student Teaching
Bachelor's (B.S.), East Tennessee State University
Master's (M.Ed.), Mississippi State University
Doctorate (Ph.D.), University of Southern Mississippi
Summer Studies, Oxford University, England

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Professor, Psychology 1963
Bachelor's (B.S.), Pittsburg State University
Master's (M.S.), Pittsburg State University
Doctorate (Ed.D.), Oklahoma State University

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Bachelor's (B.S.), South Gujarat University
Master's (M.S.), Northwestern University

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Bachelor's (B.S.), Pittsburg State University
Master's (M.S.), Emporia State University
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Bachelor's (B.S.), Pittsburg State University
Master's (M.S.), Pittsburg State University

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Bachelor's (B.S.), Pittsburg State University
Master's (M.S.), Kansas State University
Graduate Studies, Hays State, Oregon State
University, Pittsburg State University,
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Associate Professor, Computer Science 1983
Bachelor's (B.S.), Southwest Missouri
State University
Bachelor's (B.S.), Missouri Western
State College
Master's (M.A.), Southwest Missouri
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Certified Data Processor (CDP)
Graduate Studies, University of Missouri —
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Bachelor's (B.A.), Missouri Southern
State College
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Doctoral Studies, University of North Texas

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Bachelor's (B.A.), University of Oklahoma
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Bachelor's (B.S.N.), Creighton University
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Bachelor's (B.S.B.A.), Southern Illinois
University
Master's (M.B.A.), Southern Illinois
University
Doctoral Studies, Oklahoma State
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Bachelor's (B.A.), Missouri Southern
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Master's (M.A.), University of Minnesota
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Bachelor's (A.B.), University of California
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Master's (M.S.), University of Washington
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Bachelor's (B.S.), Pittsburg State University
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Master's (M.B.A.), University of Arkansas
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Master's (M.B.A.), North Texas State
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Women's Softball Coach
Bachelor's (B.S.E.), Northwest Missouri
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Master's (M.S.), University of Illinois
Graduate Studies, Southern Methodist
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University of Illinois, University of
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Bachelor's (B.S.B.A.), Delta State
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Dean, School of Arts and Sciences
Bachelor's (A.B.), Gustavus Adolphus
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Master's (M.S.), University of North Dakota
Doctorate (Ph.D.), University of Maryland
Post Doctoral Studies, University of Arizona

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Master's (M.S.), Pittsburg State University
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Graduate Studies, Kansas State University,
Purdue
Doctoral Studies, University of Arkansas
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 Master's (M.A.), University of Oklahoma
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 Bachelor's (B.A.), St. Francis College
 Master's (M.A.), University of Dayton
 Doctorate (Ph.D.), University of New Mexico
 Post Doctoral Studies, Dartmouth College,
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Professor, Mathematics 1965
 Head, Department of Mathematics
 Bachelor's (B.S.), University of Tulsa
 Master's (M.S.), University of Tulsa
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 Head, Department of Communications
 Bachelor's (B.J.), Univ. of Missouri —
 Columbia
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 Columbia
 Graduate Studies, University of Arkansas,
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 Bachelor's (B.S.), Missouri Southern
 State College
 Master's (M.S.), University of Washington
 Doctoral Studies, University of Washington

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 University
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 Bachelor's (B.A.), Drew University
 Master's (M.A.), Ohio University
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 Dean, School of Education and Psychology
 Bachelor's (A.B.), Washington University of
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 Bachelor's (B.S.), Washington University of
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 Master's (M.Ed.), Washington University of
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 Doctorate (Ph.D.), Ball State University

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 Head, Department of Biology
 Bachelor's (B.S.), Southwest Missouri
 State University
 Master's (M.S.), University of Idaho
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 Admissions/Financial Aid Counselor
 Bachelor's (B.S.), Missouri Southern
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 University
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 Bachelor's (B.A.), Henderson State
 University
 Master's (M.A.), Memphis State University
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 Bachelor's (B.S.), Central Missouri
 State University
 Master's (M.A.), Central Missouri State
 University
 Graduate Studies, University of Arkansas,
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 Bachelor's (B.A.), Southern Illinois
 University
 Master's (M.A.), Southern Illinois University
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 Mississippi
 Master's (M.A.), University of Southern
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 Doctorate (Ph.D.), University of Colorado

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 Debate Coach
 Bachelor's (B.S.), Southwest Missouri
 State University
 Master's (M.A.), Kansas State University

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 Assistant Director of Regional Crime Lab
 Bachelor's (B.A.), University of Washington
 Master's (M.S.), University of Idaho
 Doctorate (Ph.D.), University of Idaho
 Post Doctoral Studies, University of Alberta,
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 Bachelor's (B.M.E.), Oklahoma State
 University
 Master's (M.S.), Oklahoma State University
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 State College
 Master's (M.S.), University of Arkansas
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 Doctorate (Ph.D.), Georgia Institute of
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 Master's (M.S.Ed.), University of Kansas
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 Archivist and Acquisition Librarian
 Bachelor's (A.B.), Missouri Southern
 State College
 Master's (M.A.), University of Texas
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Rolla
Master's (M.S.), Central Missouri State
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Bachelor's (A.B.), University of Oklahoma
Master's (M.Acct.), University of Oklahoma
Certified Public Accountant (CPA)

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Professor, Psychology 1976
Bachelor's (B.A.), University of Missouri
Master's (M.A.), University of Missouri
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Circulation Librarian
Bachelor's (B.A.), Newcomb College,
Tulane University
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Bachelor's (B.A.), University of Omaha
Master's (M.A.), University of Iowa
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Bachelor's (B.S.), Centro De Instruccion De
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Master's (M.A.), St. Louis University
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Bachelor's (B.S.E.), Northeastern Oklahoma
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Bachelor's (B.A.), Grand Canyon University
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Bachelor's (B.S.), University of Missouri —
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Master's (M.S.), Oklahoma State University
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Master's (M.S.), Southwest Missouri State
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Summer Studies, Oxford University, England

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Bachelor's (B.S.), Central Missouri
State University
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Bachelor's (B.A.), Central State University,
Ohio
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Bachelor's (B.S.N.), Oklahoma Baptist
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Master's (M.S.N.), Duke University
Graduate Studies, Texas Woman's
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Graduate Studies, University of Northern
Iowa, Laverne College, Northern Illinois
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Instructor, Physical Education 1988
Assistant Football Coach, Cross
Country Coach
Bachelor's (B.S.E.), Ouachita Baptist
University
Master's (M.Ed.), Henderson State
University

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Bachelor's (B.A.), Missouri Southern
State College
Master's (M.A.), Central Missouri
State University
Doctorate (Ph.D.), Oklahoma State
University

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Professor, English 1981
Bachelor's (A.B.), University of Illinois
Master's (A.M.), University of Illinois
Doctorate (Ph.D.), University of Illinois

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Professor, Education 1969
Head, Department of Education
Bachelor's (B.S.), Southern Illinois
University
Master's (M.S.), Southern Illinois University
Doctorate (Ph.D.), Southern Illinois
University
Post Graduate Studies, West Germany

Daniel W. Scheible

Instructor, Physical Education 1989
Assistant Football Coach
Bachelor's (B.S.), Northwest Missouri
State University
Master's (M.S.), Northwest Missouri
State University

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Bachelor's (B.S.), University of Houston
Doctorate (Ph.D.), University of Houston

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Bachelor's (B.A.), University of Missouri
Master's (M.S.), University of Missouri
Doctorate (Ph.D.), University of Missouri
Post Doctoral Studies, University of Missouri

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Professor, Art 1990
Bachelor's (B.F.A.), Chadron State College
Master's (M.A.), University of Northern Colorado
Master's (M.F.A.), University of Denver

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Assistant Professor, Dental Hygiene 1985
Director of Dental Hygiene
Bachelor's (B.S.), Missouri Southern State College
Doctorate (D.D.S.), University of Missouri—Kansas City

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Interim Dean, School of Technology
Bachelor's (B.S.), Central Missouri State University
Master's (M.S.), Central Missouri State University

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Bachelor's (B.S.), University of Arkansas—Little Rock
Master's (M.B.A.), Louisiana Tech University
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Bachelor's (B.S.N.), University of Missouri
Master's (M.S.N.), University of Missouri
Gerontological Nurse Practitioner (GNP)

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Controller & Asst. Vice President for Business Affairs
Bachelor's (B.S.B.A.), Missouri Southern State College
Master's (M.B.A.), Drury College

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Bachelor's (B.A.), Harding College
Master's (M.A.), North Texas State University
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Bachelor's (B.A.), Chapman College
Master's (M.A.), University of Northern Colorado
Doctoral Studies, University of Alabama

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Specialist (Ed.S.), Pittsburg State University

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Graduate Studies, Pittsburg State University, University of Missouri—Rolla
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Bachelor's (B.A.), University of California —
Davis
Master's (M.A.), University of California —
Davis
Master's (M.A.), Stanford University
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Post Graduate Studies, University of Munich,
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Law Degree (J.D.), University of Missouri
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Master's (M.S.), Pittsburg State University

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Counselor
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Post Doctoral Fellow, University of Colorado

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Audio-Visual & Government Documents
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Bachelor's (B.S.), University of Missouri
Master's (M.Ed.), University of Missouri
Doctoral Studies, Arizona State University

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University
Law Degree (J.D.), University of Missouri
Summer Studies, Oxford University, England

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College — Emporia
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Doctorate (D.D.S.), University of Missouri —
Kansas City

Leo Dougherty, MT (ASCP)

Program Director
School of Medical Technology
St. John's Regional Medical Center

John R. Esther, M.D.

Medical Director
School of Medical Technology
St. John's Regional Medical Center

James R. Krudwig

Director, Small Business Development
Center
Bachelor's (B.S.B.A.), Pittsburg State
University
Master's (M.B.A.), Central Missouri
State University

Emeritus Faculty

Enid Blevins

Assistant Professor, English 1966
Bachelor's (B.S.), Southwest Missouri
State University
Master's (M.A.), Pittsburg State University

Cleetis Headlee

Professor, English 1946
Bachelor's (B.S.), University of Missouri
Master's (M.A.), University of Missouri

Julie S. Hughes

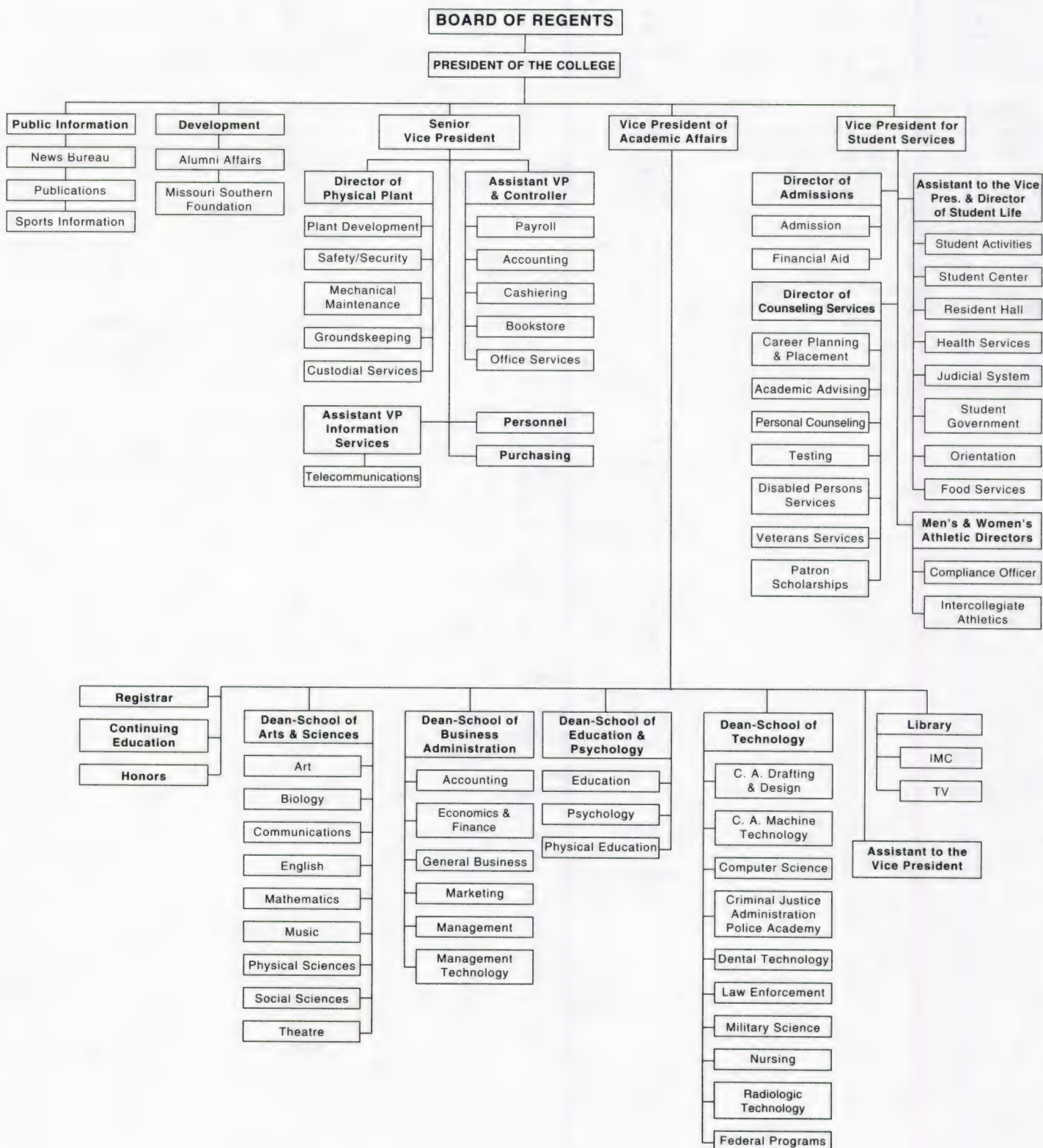
Assistant Professor, History 1963
Bachelor's (B.S.), Pittsburg State University
Master's (M.S.), Pittsburg State University

Grace C. Mitchell

Assistant Professor, English 1958
Bachelor's (A.B.), Greensboro College
Master's (M.A.), Pennsylvania State
University

Dorothy A. Stone

Professor, Business Administration 1939
Bachelor's (B.S.), University of Missouri
Master's (M.A.), University of Missouri



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Equal Opportunity

Missouri Southern State College does not discriminate on the basis of handicap, race, color, religion, national origin, sex or age in the recruitment and admission of student, the recruitment and employment of faculty and staff and the operation of any of its programs and activities, as specified by Federal laws and regulations. The Director of Personnel is the designated coordinator for compliance with Section 504 of the Rehabilitation Act of 1973, Title VI of the Civil Rights Act of 1964, Title IX of the Education Amendments of 1972 and the Age Discrimination Act of 1967.

Handicap Access

Missouri Southern State College reschedules and relocates classes to ensure accessibility under Section 504 of the Rehabilitation Act of 1973. If any person has a class in an inaccessible location, please contact the Director of Counseling who, in conjunction with the office of the Vice President for Academic Affairs, will reschedule or relocate the class to provide accessibility. Information concerning accessible facilities is available from the Assistant to the President.

Family Educational Rights and Privacy

The College may disclose personally identifiable information from an educational record of a student without consent in following situations:

1. The disclosure is directory information which includes name, address, telephone listing, date and place of birth, major, participation in activities and sports, dates of attendance, degrees and awards received and most recent previous institution attended.
2. The disclosure is to school officials, including teachers, who have a legitimate education interest.
3. The disclosure is to parents of a dependent student as defined in the Internal Revenue Code.
4. The disclosure is in connection with a health or safety emergency.
5. Other situations listed in 34CFR 99.31.

Policy Changes

The College reserves the right to make changes as required in course offerings, curricula, academic policies and other rules and regulations affecting students, to be effective whenever determined by the College. These changes will govern current and formerly enrolled students. Enrollment of all students is subject to these conditions.

Honors Program Application

Name	Miss		
	Ms.		
	Mrs.		
	Mr.		
	Last	First	Initial

Social Security No: _____ Telephone No: (_____) _____
(Area Code)

Address: _____
Street
Town
State
Zip

Highest ACT Composite Score: _____

Test Date: _____

Have you been admitted to MSSC? Yes ☐ No ☐

If not, please apply at once.

Have you applied for financial aid? Yes ☐ No ☐

If not, please consider doing so.

High School: _____ GPA: _____

Year of Graduation: _____ Class Standing: _____/_____

Intended Major: _____

For already enrolled or transfer student

College or University Attended: _____

Hours Completed: _____ GPA: _____

Quarter System _____

Semester System _____

Please list the names of the two people you plan to ask for references.

Name	Title
------	-------

Name	Title
------	-------

For Office Use Only
Action taken:

Check below if one applies.

- ☐ National Merit Finalist
☐ National Merit Semi-Finalist
☐ National Merit Letter of Commendation

Please list awards, extracurricular activities, and interests below. Attach a separate sheet if necessary.

Signature

Date _____

Instructions

Requirements

For entering freshmen, an Enhanced ACT composite score of 28 or above or a GPA of at least 3.5 (on a 4-point scale) is required for eligibility to apply for admission to the Honors Program.

Students who have completed at least 15 but fewer than 30 hours of coursework with a least a 3.5 GPA either at MSSC or at another accredited college or university are eligible to apply for admission to the Honors Program.

Applications Procedures

Incoming Freshman

- *A completed **APPLICATION FORM** must be filed.
- *Please request that an official high school **TRANSCRIPT** be sent directly to the Honors Program.
- *Your **ACT RESULTS** must be on record, either separately, or on your transcript.
- *Arrange to have two **LETTERS OF RECOMMENDATION** sent directly to the Honors Program, one from your high school principal and one from one of your high school teachers. Additional letters are also invited.
- *You will need to arrange for an **INTERVIEW**.
- *You may be required to submit an **ESSAY** describing your academic goals and explaining your participation in the Honors Program.

Already Enrolled or Transfer Student

- *A completed **Application Form** must be filed.
- *Please request that an official college **TRANSCRIPT** be sent directly to the Honors Program.
- *Your **ACT RESULTS** must be on record, either separately or on your transcript.
- *Arrange to have two **LETTERS OF RECOMMENDATION** from your college instructors sent directly to the Honors Program. Additional letters are also invited.
- *You will need to arrange for an **INTERVIEW**.
- *You may be required to submit an **ESSAY** describing your academic goals and explaining your participation in the Honors Program.

For consideration for entrance into the program in the fall semester, all application materials should be received by April 1; for the spring semester all materials should be received by November 15.

Send all application materials to:

Missouri Southern State College
Honors Program Director
3950 E. Newman Rd.
Joplin, MO 64801-1595

Telephone: Toll free 1-800-492-4811 in Missouri, Arkansas (501), Kansas (316), and Oklahoma (918) area codes only.

Telephone: In Joplin 1-417-625-9300, 625-9686 or 625-9748

Missouri Southern State College is an equal opportunity and affirmative action institution.

The college reserves the right to amend regulations when necessary

GPA _____ Need _____ Other Scholarship _____ Code _____ Activities _____

Office Use Only

Missouri Southern State College

Please complete application on **both** sides

3950 E. Newman Road
Joplin, Missouri 64801-1595
417-625-9300

Scholarship Application

Note: By filing this form you will be considered for any one of 200 Patron Scholarships available through the Missouri Southern State College Scholarship program.

- How to apply:**
1. Must apply or have applied for admission.
 2. Transfer students must have transcripts on file with Registrar's Office. (Transfer students may be eligible for Junior College Transfer Scholarships. Please contact the Financial Aid Office at Missouri Southern State College.).
 3. **Type or Print** application.

Name _____
First _____ Middle or Initial _____ Last _____ Maiden _____

Social Security Number _____ Phone _____

Address _____
Number of Street _____ City _____ State _____ Zip _____ County _____

Male _____ Female _____ Married _____ Single _____

Date of High School Graduation _____ GED _____

High School Attended _____ City/State _____

Entering Freshman _____ Freshman _____ Sophomore _____ Junior _____
(0 hrs) (1-29 hrs) (30-59 hrs) (60-89 hrs)

Senior _____ *Transfer _____ *College last attended _____
(90 plus hrs) (new transfers only)

Educational Major _____ Minor _____

Check criteria which apply to you.

- _____ 1. Career choice is mental health.
- _____ 2. Student Nurses' Association (SNA)
- _____ 3. Communication (major)
- _____ 4. Secretarial Science (major)
- _____ 5. Non-traditional student
- _____ 6. Freeman Hospital employee
- _____ 7. Son or Daughter of MSSC alumni
- _____ 8. Graduate - top half of class
- _____ 9. Father or Grandfather Lions Club Member
- _____ 10. Interested in technology major
- _____ 11. Minority (optional):*
 - _____ Black (non-Hispanic);
 - _____ White (non-Hispanic);
 - _____ American Indian;
 - _____ Hispanic;
 - _____ Asian;
 - _____ other

Entering Freshmen or New College Transfer Students only—

Application will not be processed unless this section is completed and signed by your HS counselor/principal or College Registrar.

High School GPA on a 4.00 grade point system

(HS) 7th semester GPA: _____

(College) Last Semester completed GPA: _____

Signature _____ Title _____

Date _____

Please do not send transcript to Financial Aid Office

*Some scholarships may have criteria based on minority.

Are you receiving any of the following scholarships?

President's _____ Regents' _____ Performing Aid _____ Athletic _____ Honors _____
Deans' _____ Other _____

Are you currently employed? _____ If yes, list place of employment. _____

(If dependent) Father's employer _____

(If dependent) Mother's employer _____

(If married) Spouse's employer _____

Note: Please complete the following:

Scholastic honors: _____

Activities: _____

Organizations: _____

Volunteer Work: _____

All qualified applicants will receive consideration without regard to non-merit factors: race, sex, creed or handicap.

Statement of Certification: If I am awarded a scholarship, I hereby give my consent for Missouri Southern State College to permit the donor of the scholarship to review my scholarship record files.

I understand that in order to receive assistance from the scholarship program administered by Missouri Southern State College I must maintain satisfactory academic progress.

I further understand that application to the scholarship program **must** be turned in prior to **March 1**.

- Note:**
1. Students may not receive more than one scholarship issued by the College. This includes the Honors, President's, Regents', Jr. College, Deans', and Patrons Scholarship Program. Outstanding students who receive more than one scholarship must choose which award they will accept unless special approval is made by the Director of Student Financial Aid.
 2. Scholarship recipients may receive athletic and performing awards which must be coordinated with the scholarship; not to exceed the student's college costs.
 3. All scholarships are issued for one year only.
 4. All scholarships are subject to change without notice and are subject to review by the scholarship committee upon receipt of funds and authorization by the Board of Regents.

Date Signed _____ Signature _____

Revised 09/92

1-800-492-4811
Effective in MO, AR,
KS-316, OK-918 area codes

Missouri Southern State College
3950 E. Newman Road
Joplin, MO 64801-1595
Application for Admission

For Office Use Only
Ent By
Fee By

\$10.00 NON-REFUNDABLE application fee required for first time students only.

1. Social Security Number (Required) _____ - _____ - _____

2. Name (Print) _____
(Last) (First) (Middle) (Maiden or Former Names)

3. Sex (Circle) Male Female

4. a. Are you a veteran? (Circle) Yes No b. Are you eligible for Veterans Educational Benefits? (Circle) Yes No

5. Date of Birth: Month _____ Day _____ Year _____

6. Permanent mailing address:

Street or Route _____ City _____ County _____

State _____ Zip Code _____ Telephone Number (____) _____

How long have you resided at the above address? _____ If less than 1 year, indicate addresses for past year.

7. Are you a U.S. Citizen: (Circle) Yes No If no, what visa do you hold? _____
If no, country of birth _____ Major _____

8. a. Student Status (Circle)

1. First Time Student (at college level)

2. Transfer Student (attended any other college)

3. Former Student of MSSC or Joplin JUCO

4. Post Graduate (4 year degree or greater)

5. Credit-in-Escrow (permission of authorized high school official)

6. Transient-summer only (letter of approval from attending college)

b. College credit hours completed (Circle) 0-29 (Fresh.) 30-59 (Soph.) 60-89 (Jr.) 90 or more (Sr. or Grad.)

9. Admission Status (Circle one only)

Regular-Degree Seeking:

1. Baccalaureate (4-yr.)

2. Associate (2-yr.)

3. Certificate (1-yr.)

4. Undecided, or Post-Grad Studies

*Other - Non-Degree Seeking:

1. _____

2. Special

3. Transient

4. Credit-in-Escrow

5. Return to Learn

6. Workshop

7. Audit

8. _____

*NOTE: Students circling one of the
'OTHER' categories are not eligible
for financial aid and do not meet
admission requirements (see Catalog).

10. The college term in which you expect to enroll: Fall 19 _____ Spring 19 _____ Summer 19 _____

11. a. High school date of graduation: 19 _____ or date GED passed: 19 _____

b. Name of high school _____ City _____ State _____
(or location of where GED was taken)

c. Are you a mid-term high school graduate? (Circle) Yes No

12. College attended - put most recent on the top line:

Name	Location	Dates attended		Degrees Earned
		From	To	

13. a. Are you currently on suspension from any college? (Circle) Yes No

b. Have you ever been convicted of a felony? (Circle) Yes No

If you answered yes on item 13a or 13b, please explain the situation on the back of this application.

14. Have you been immunized against: a. Measles (two doses)? (Circle) Yes No b. Rubella? (Circle) Yes No

15. What is your racial background? (Circle)

American Indian or Alaskan Native

Asian or Pacific Islander

Caucasian/White

Hispanic

Negro/Black

16. Next of kin (in case of emergency) _____ Phone (____) _____

Street _____ City _____ State _____ Zip _____

Admission requirements are listed on the reverse side of this form. Missouri Southern State College does not discriminate on the basis of sex, race, creed, color, national origin, handicap, or age in its educational programs or activities. For further information concerning handicap accessibility, contact the Handicap Services Coordinator.

17. I certify that the information provided is complete and correct to the best of my knowledge, and that I have read the admission and transcript requirements listed in the catalog.

(Signature)

(Date submitted)

Check here if you would like an application for housing.

Thank you for your application. Please let us know if we can be of any further assistance.

(OVER)

Housing Information

On Campus residence requirements

All freshmen and sophomores are required to live in Missouri Southern State College Residence Halls to the extent space is available, unless they are married, live with their parents, live with a relative, or are excused by the Director of Student Life.

General Information

Missouri Southern houses over 560 students on campus. The two main residence halls are North Hall (202 men) and South Hall (106 women). Apartment-style units house an additional 256 students.

The rooms on campus are furnished with twin size extra long beds, bed pads, study carrels, desks, chairs, lamps, wastebaskets, mini blinds, and night stands. Students are required to bring sheets, pillow, blankets, and all personal belongings. The apartment units are also furnished with sofa, chair, lamps, and coffee table.

All residence hall facilities are air-conditioned. Cable TV rooms, study lounges, recreational areas, IBM Personal Computers, vending machines, and laundry facilities are also included. The residence halls are staffed by two full-time professional Resident Directors who are assisted by a paraprofessional staff of 18 Staff Assistants.

Resident students are also entitled to food service. Twenty meals are served each week in the Student Center Cafeteria. Individual meals feature salad bar and unlimited servings, including entrees.

For additional information

Call: Missouri Southern State College
Housing Office
(417) 625-9522
1-800-492-4811 toll free in MO, AR,
KS-316, OK-918 area codes only

or write: Missouri Southern State College
Housing Office
3950 E. Newman Rd.
Joplin MO 64801-1595

Request for application

Complete and return the form below to receive an Contract for Housing

Name _____ Date _____
(Last) (First) (Middle)
Address _____
(Street) (City) (State) (Zip Code)
Telephone _____

Detach and return this form to: Missouri Southern State College
Housing Office
3950 E. Newman Road
Joplin, MO 64801-1595

